-528-16.rag

us-09-965

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version
- 2003
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       Copyright
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protein search, using sw model OM protein 09:11:12 2003, 1, March Run on:

dates/sec Search time 36 Seconds (without alignments) 658.850 Million cell up

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Scoring table: Sequence:

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Database

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			AAB48072	AAY05276	AAW76722	AAB12179	AAY87962	AAY53658	AAB91217	AAU06196	AAY53657	AAB12180
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		Length DB	178	95	36	36	36	36	36	36	36	36
dю	Query	Match	100.0	39.3	19.3	19.3	19.3	19.3	19.3	19.3	18.4	14.4
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GENOMICS

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AAY87963	AAB91221	AAB91220	AAR07276	AAB91226	AAB08020	AAG75364	AAY53660	AAB91109	AA006156		7	3566	5707	0791	795	AAB85107	511	8027	0	05		6853	AAU02196	AAE08586	2327	46	727	5205	AAR62049	9774	AAR97741	AAW15365	_	AAW51801
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ALIGNMENTS

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Extracellular signaling molecule; EXCS; anti-inflammatory; human; immunosuppressive; cytostatic; neuroprotective; gastrointestinal; virucide; antibacterial; anti-HIV; human immunodeficiency virus; antiinfertility; cerebroprotective; nootropic; antiulcer; antifungal; anticonvulsant; tranquilizer; neuroleptic; vasotropic; gynecological; keratolytic; protozoacide; gene therapy.
                                                                                        signaling molecule (EXCS) (ID 5037143CD1)
           1072
AAB48072 standard; protein; 178 AA
                                                                                                                                                                                                                                                                                     99US-0134949.
99US-0144270.
99US-0146700.
99US-0157508.
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                                                                     entry)
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15-JUL-1999;
30-JUL-1999;
04-OCT-1999;
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                                                                   19-MAR-2001
                                              AAB48072;
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RESULT 1
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new numan extracellular signaling nuclei for diagnosing, treating and preventing gastrointestinal, neurological, reproducantoimmune/infi
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 Patterson
DAM,
            2001-025021/03
                  AAC84308
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Azimzai
                 N-PSDB;
            WPI;
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c acids and polypeptid infections and and autoimmune/inflammatory disorders -

93; 114pp; English. Page ; Claim

The invention provides human extracellular signaling molecules (EXCS)
and polynucleotides which identify and encode EXCS. EXCS can be
expressed by standard recombinant methodology. The amino acid and nucleic
acid sequences of EXCS are useful for diagnosing, treating and
preventing infections and gastrointestinal (peptic ulcer, dysphagia,
classase, stroke), reproductive (infertility, ovulatory defects,
endometriosis), autoimmune /inflammatory (actinic keratosis, acquired
immunodeficiency syndrome (AIDS), Addison's disease), and cell
proliferative disorders including cancers (of the breast, adrenal gland,
bone). They may also be used to treat fatal familial insomia,
nutritional and metabolic diseases of the nervous system, myopathies,
caused by parasites (malaria, leishmania, trypanosoma), viral
(adenovirus, coronavirus, flavivirus), bacterial (e.g. pneumococcus,
staphylococcus, bacillus), and fungal (aspergillus, blastomyces,
dermatophytes) agents. The nucleic acids, polypeptides, antagonists,
dermatophytes) agents. The nucleic acids, polypeptides may also be used
for treating or preventing disorders associated with increased or
decreased expression or activity of EXCS. EXCS polynucleotides may also
be used to detect and quantify gene expression in biopsied tissues in
which expression of EXCS may be correlated with the disease, to determine to determine to EXCS and nucleic levels during therapeutic intervention, to detect the presence of associated disorders, as targets in microarray, to generate hybridization probes, and to detect differences in gene sequences among normal, carrier or affected individuals. Antibodies may also be used in diagnosing disorders, in monitoring patients being treated with EXCS agonists, antagonists or inhibitors. Sequences AAB48057-B48082 represent the EXCS adrenal gland may also monitor regulation o detect the presence t C presence or excess expression of EXCS, of the invention.

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178 AA; Sequence

Gaps ó, Length 178; Indels 22; ö Score 964; DB 2 Pred. No. 3e-83; red. No. 3e Mismatches 0; 100.0%; Conservative Similarity 178; Match Local Matches Query

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MAAARLCLSLLLSTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRYINML 60 Н

9 NMIL -4 61 d ð

61 d

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AAY05276 standard; Protein; AAY05276; RESULT 2

95

(first entry) 22-JUN-1999

Pangreatic polypeptide.

polypeptide; neuropeptide; immune response; diagnosis; ulcer; Pancreatic

therapy; food intake-related disorder; obesity; anorexia; bulimia; Parkinson's disease; acute heart failure; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; asthma; allergy; benign prostatic hypertrophy; psychotic disorder; neurological disorder; cancer.

Homo sapiens

useful

EP908515-A2

14-APR-1999

5-JUN-1998;

98EP-0304691

97EP-0307187 16-SEP-1997;

SMITHKLINE BEECHAM PLC (SMIK)

Southan CD;

WPI; 1999-217067/19 N-PSDB; AAX28413.

useful pancreatic neuropeptide polypeptide and polynucleotide, usefuidiagnostic reagents and for prevention and treatment of cancer, thma and schizophrenia asthma New aB

14-15; 16pp; English. Claim 10; Page This sequence is the pancreatic polypeptide of the invention. The pancreatic polypeptide is a member of the neuropeptide family. Pancreatic pancreatic polypeptide is a member of the neuropeptide family. Pancreatic polypeptides and can diagnose diseases by detecting mutations in the pancreatic gene, and can diagnose diseases associated with pancreatic polypeptide imbalance by determining pancreatic polypeptide levels. Pancreatic polypeptides can be used to screen for agonists and antagonists which bind the polypeptide by observing the binding, stimulation or inhibition of pancreatic polypeptide activity. These can be use in treatment to activate or inhibit pancreatic polypeptide activity, in addition to direct administration of antisense sequences and soluble pancreatic polypeptides to prevent expression, or pancreatic polypeptide. Gene therapy may also associated with a lack of pancreatic polypeptide. Gene therapy may also be used to affect endogenous pancreatic polypeptide production, and pancreatic polypeptide antibodies are useful for inducing an immune response to immunise and prevent disease, and for inducing an immune response to immunise and prevent disease, and for chromatography. Diseases diagnosed, prevented or treated include: for intake-related disorders e.g. obesity, anorexia and bulimia; parkinson's disease, acute heart failure; hypotension; hypertension; urinary actention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic mental retardation and and carriary activation and mancreatic mental retardation and and carriary active heart and enter mental retardation and carriary carriary and carriar cancer and pain. dyskinesias; and

95 AA; Sequence

83; 95; Length Indels 20; 7; DB Score 378.5; DB Pred. No. 3e-28; I; Mismatches 4; 39.3%; Conservative Similarity 84; Query Match Best Local Best Loc Matches

<u>:</u>

9 MAAARLCLSLILLISTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRYINML _

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120 62 TRPRCVPQLGREIPAPGTLGPLHIPGHTLSPAPAPAPAPARGKTGHLCSTGLDQCALGK TR-61

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This human pancreatic polypeptide fragment is used in a method for treating non-insulin-dependent diabetes mellitus (NIDDM). The method involves administering a composition comprising pancreatic polypeptide or C-terminal pancreatic polypeptide fragment in a carrier. Screening a composition for the ability to treat NIDDM is also possible and involves determining if the composition decreases hepatic expression of the alpha subunit of a Gs protein in a liver cell plasma membrane, thereby inhibiting stimulation of cyclic adenosine monophosphate (cAMP) by glucagon, determined if the composition binds the vagal nuclear complex and inhibits secretions of digestive enzymes by the exocrine pancreas, thereby inhibiting beta cell and pancreatic islet hypertrophy or determining if the composition binds the arcuate nucleus in the hypothalamus and potentiates the effect of leptin in reducing
                                                                                                                                                 Non-insulin dependent diabetes mellitus; NIDDM; hepatic glucose; pancreatic polypeptide; PP; treatment; Gs protein alpha subunit; inhibitor; cyclic adenosine monophosphate; cAMP; glucagon; secretion; exocríne pancreas; beta cell; pancreatic islet hypertrophy; insulin; neuropeptide Y; hyperglycaemià.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothalamus and potentiates the effect of leptin in reducing neuropeptide Y synthesis, thereby enhancing insulin sensitivit reversing the effects of neuropeptide Y. The NIDDM treatment decreases hyperglycaemia and increases insulin sensitivity with additional detrimental effects.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     with
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1.5e-10;
hes 0;
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pancreatic polypeptide or C-terminal
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                               standard; peptide;
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                                                                                                 entry)
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RESULT
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Neuropeptide Y (NPY) (AAB12177) has a number of effects on the reproductive system. NPY is one of a family of neuropeptides. Other members of the family include peptide YY (PYY, see AAB12177), and the present sequence, human pancreatic polypeptide (HPP). Rat pancreatic polypeptide is described in AAB12180. Selective NPY-Y4 receptor agonists have been found (see AAB12181 to AAB12183). The NPY-Y4 receptor agonists cause an increase in the circulating levels of luteinizing hormone (LH) and hence improve the fertility of animals with compromised reproductive function. The NPY-Y4 agonists may be used to treat human reproductive disorders such as antagonists may be used to treat human reproductive disorders such as precocious puberty, endometriosis, polycystic ovary syndrome, benign prostatic hyperplasia and hormone-dependent neoplasias e.g. breast cancer and process of the present sequence was used in a sequence homology
                                                            NPY; NPY-Y4 receptor; precocious puberty; pancreatic polypeptide; polycystic ovary syndrome; endometriosis; benign prostatic hyperplasia; delayed puberty; amenorrhea; breast cancer; prostate cancer; PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                              delayed
                                                                                                                                                                                                                                                                                                                                                                                                                                           comprises
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                                                                                                                                                                                                                                                                                                                                                                                                                           Treating human reproductive disorders such as amenorrhea, puberty, polycystic ovary syndrome and endometriosis, compadministering a neuropeptide Y-Y4 receptor ligand -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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Pred. No. 1.5e-10;
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100.0%; Pr
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                                       Human pancreatic polypeptide.
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99GB-0011178
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13-MAY-1999;
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APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR

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AAB12179 standard; peptide; 36

RESULT AAB121

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This invention describes the novel use of a composition containing a neuropeptide Y (NPY) Y4 receptor ligand for treatment of human reproductive disorders. The products described in the invention have endocrine, gynecological and cytostatic activity and can be used for the treatment of reduced reproductive function, delayed puberty, supranormal function of the reproductive organs, precocious puberty, endometriosis, polycystic ovary syndrome, benign prostatic hyperplasia, impaired reproductive function or amenorrheae. This sequence represents the human PP neuropeptide which is used in the method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           viability;
                                                                                                                                                                                                                                                                           elective
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         Neuropeptide; human; treatment; reproductive disorder; neuropeptide endocrine; gynecological; cytostatic; puberty; endometriosis; polycystic ovary syndrome; prostatic hyperplasia; amenorrheae.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                          receptor ligand for treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 36;
                                                                                                                                                                                                                                                                      Compositions containing a neuropeptide Y Y4 receptor ligar for the hypothalamic-pituitary-gonadal axis, for treatment reproductive disorders e.g. delayed or precocious puberty endometriosis and benign prostatic hyperplasia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of the human pancreatic polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ore 186; DB 21;
red. No. 1.5e-10;
Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 186;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                         2; 12pp; English.
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larity 100.0%; I
Conservative 0;
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                                                                                                                                                                                                                      Hayward
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                                                                                                                                                                                            (FERR ) FERRING
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                                                                                                                                                                                                                     X,
                                                                sapiens
                                                                                                                                          26-NOV-1998;
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                                                                                       GB2344050-A
                                                                                                                 31-MAY-2000
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Best Local
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The present sequence represents a human pancreatic polypeptide. The polypeptide is used in the method of the invention, for monitoring transplanted pancreatic tissue viability. The method comprises screening for the modulation of the level of a transplant tissue derived molecule or its derivative, e.g. pancreatic polypeptide, in the body fluid. The method is useful for monitoring the viability of transplanted pancreatic tissue in a mammal by screening for an increase or decrease in the level of a transplant tissue derived molecule. The method is an indicator of graft damage or deterioration which would permit the commencement of immunosuppressive treatment. The method is especially useful for monitoring the viability of insulin producing foetal pancreatic tissue which has been transplanted into diabetic patients. The method is also useful as an non-invasive clinical monitor of early transplant viability and on-going transplant survival.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino; hydroxyl; thiol; hormone; growth factor; neurotransmitter.
                                                                                                          viability
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                                                      Duncan MW;
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                                                                                                          New method for monitoring transplanted pancreatic tissue
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                                                      MP,
                                                                                                                                                                                                                                                                                                                                                                                                           Score 186; DB 21;
Pred. No. 1.5e-10;
0; Mismatches 0;
               SYDNEY AREA HEALTH SERVICE.
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                                                      Bucknall
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                      Brown AS,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAB91217 standard; Peptide; 36 AA.
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                                                                                                                                                  70pp; English
                                                                                                                                                                                                                                                                                                                                                                                                  19.3%; Sc.
100.0%; P<sub>J</sub>
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99US-0153406.
99US-0159783.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                      Amaratunga AP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      attaching
              SOUTHEASTERN SUNISEARCH LID.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CONJUCHEM INC
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                                                                                2000-053124/04.
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                                                                                                                                                7;
                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                   36 AA;
                                                                                                                                                Disclosure; Fig
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Modifying and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-MAY-1999;
10-SEP-1999;
15-OCT-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    35;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAB91217;
                                                   BE,
                                                                                                                                                                                                                                                                                                                                                                                    Sequence
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Best Local
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Matches
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in o£ useful for increasing length degradation, peptidase

English 733pp; 325; Page Disclosure;

The present invention describes a modified therapeutic peptide (I) comprising a therapeutically active amino acid region (III) and a reactive group (II) (e.g. succinimidyl and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids.

(I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in vivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body.

Modifying and attaching therapeutic peptidases to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases intracellular uptake and interference with physiological processes.

AAB90829 to AAB92441 represent invention.

exemplification of the present invention.

36 AA; Sequence

SXC

Gaps 0 Length 36; Indels red. No. 1.5e-10; Mismatches 0; Score 186; Pred. No. 19.3%; Sc. 100.0%; Pr Similarity 100 35; Conservative Query Match Local Best Loc Matches

64 a a ò

AAU06196 RESULT

standard; peptide; 36 AAU06196

AAU06196;

(first 04-DEC-2001 (PP) polypeptide Mammalian pancreatic

entry)

Mammalian; brain aluminium concentration; central nervous system; CNS; peptide tyrosine-tyrosine receptor; PYY receptor; PP receptor; pancreatic polypeptide receptor; Alzheimer's disease; nootropic; neuro protective.

Mammalia

S X M

WO200158409-A2

16-AUG-2001.

07-FEB-2001;

08-FEB-2000;

2001WO-US03952

2000US-0499980

(UYNC-) UNIV NORTH CAROLINA STATE

BM, Berg Croom WJ,

WPI; 2001-550001/61

XGXFXFXFXFXFXFXFXFXXXXXX

Reducing aluminium levels in the central nervous system, for the treatment of Alzheimer's disease comprises administration of a peptide tyrosine receptor agonist or a pancreatic polypeptide receptor agonist

6; 52pp; English Disclosure; Page

ım levels reducing aluminion oŧ method invention relates to a The present

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administrati
in the central nervous system (CNS). The method comprises administratiof a peptide tyrosine-tyrosine (PYY) receptor agonist or a pancreatic polypeptide (PP) receptor agonist. The method is useful for the treatment of Alzheimer's disease and for reducing aluminium levels in the central nervous system, especially the brain, of a subject. The treatments are effective and do not impart excessive toxicological effects. The present sequence represents mammalian pancreatic PP.
               88888888888
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36 AA; Sequence

Gaps ö 36; Indels Length DB 22; 1.5e-10; hes 0; Mismatches Score 186; Pred. No. No. 0; 19.3%; Conservative Similarity 35; Conservation Query Match Best Local Matches

.. 0

64 35 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR 30 Н g

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σ RESULT **AA**Y536

standard; protein; AAY53657

AAY53657;

entry) (first 22-FEB-2000

the porcine pancreatic polypeptide. oŧ Amino acid sequence

tissue viability; treatment; insulin; Pig; pancreatic polypeptide; transplanted pancreatic graft damage; graft deterioration; immunosuppressive pancreatic tissue; diabetic; clinical monitor; early transplant viability; transplant survival.

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 s_{D} Sus WO9958979-A1

18-NOV-1999

13-MAY-1999;

99WO-AU00361

SYDNEY AREA HEALTH SERVICE SOUTHEASTERN (SESY-)

98AU-0003490.

13-MAY-1998;

UNISEARCH LTD. (UNIX) Duncan MW

Bucknall MP,

Brown AS,

Amaratunga AP,

Tuch BE,

tissue viability pancreatic method for monitoring transplanted 2000-053124/04 WPI; New **#X1X4X14XXXX**

in

Disclosure, Fig 7; 70pp; English.

mammal

The present sequence represents a porcine pancreatic polypeptide. The polypeptide is used in the method of the invention, for monitoring transplanted pancreatic tissue viability. The method comprises screening for the modulation of the level of a transplant tissue derived molecule or its derivative, e.g. pancreatic polypeptide, in the body fluid. The method is useful for monitoring the viability of transplanted pancreatic tissue in a mammal by screening for an increase or decrease in the level of a transplant tissue derived molecule. The method is an indicator of graft damage or deterioration which would permit the commencement of immunosuppressive treatment. The method is especially useful for monitoring the viability of insulin producing foetal pancreatic tissue which has been transplanted into diabetic patients. The method is also useful as an non-invasive clinical monitor of early transplant viability and on-going transplant survival

Æ 36 Sequence 9

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Gaps

Indels

36;

Length

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Neuropeptide Y (NPY) (AAB12177) has a number of effects on the reproductive system. NPY is one of a family of neuropeptides. Other members of the family include peptide YY (PYY, see AAB12177), and the present sequence, rat pancreatic polypeptide (RPP). Human pancreatic polypeptide is described in AAB12179. Selective NPY-Y4 receptor agonists have been found (see AAB12181 to AAB12183). The NPY-Y4 receptor agonists cause an increase in the circulating levels of luteinizing hormone (LH) and hence improve the fertility of animals with compromised reproductive function. The NPY-Y4 agonists may be used to treat human reproductive disorders such as antagonists may be used to treat human reproductive disorders such as antagonists may be used to treat human reproductive disorders such as
                                                                                                                                                                                                                                                                                        Rat; neuropeptide Y; luteinizing hormone; reproductive system; NPY; NPY-Y4 receptor; precocious puberty; pancreatic polypeptide; polycystic ovary syndrome; endometriosis; benign prostatic hyperplasia; delayed puberty; amenorrhea; breast cancer; prostate cancer; PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         precocious puberty, endometriosis, polycystic ovary syndrome, prostatic hyperplasia and hormone-dependent neoplasias e.g. brand prostate cancer. The present sequence was used in a sequen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            human reproductive disorders, polycystic ovary syndrome,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             re disorders such as amenorrhea,
syndrome and endometriosis, comp
ide Y-Y4 receptor ligand -
  ore 177; DB 21;
ed. No. 1.1e-09;
Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                     amide"
                                                           30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                           Score 177;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Treating human reproductive disorders puberty, polycystic ovary syndrome and
                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers 36
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            administering a neuropeptide Y-Y4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hayward
                                2;
                                                                                                                                                                  AAB12180 standard; peptide; 36
18.4%;
larity 94.3%;
Conservative
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99GB-0011178
                                                                                                                                                                                                                                                             pancreatic polypeptide.
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              l Similarity
33; Conserv
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13-MAY-1999;
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                                                                                                                                                                                                   AAB12180;
Query Match
Best Local
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              Best Loc
Matches
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sed for the supranormal
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of
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                                                                                                                                                                           Neuropeptide; rat; treatment; reproductive disorder; neuropeptide endocrine; gynecological; cytostatic; puberty; endometriosis; polycystic ovary syndrome; prostatic hyperplasia; amenorrheae.
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                                                                                                                                                                                                                                                                                                                                                                                                                    receptor ligand
for treatment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 36;
                                                                                                                                                                                                                                                                                                                                                                                                                             adal axis, for treatment or precocious puberty hyperplasia -
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Pred. No. 4.2e-(1; Mismatches
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APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
          30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Compositions containing a neuropeptide for the hypothalamic-pituitary-gonadal reproductive disorders e.g. delayed or endometriosis and benign prostatic hype
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                                                                                                                                                      fragment
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                                                                               AAY87963 standard; peptide;
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larity 77.1%;
Conservative
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                                                                                                                                                                                                                                                                                                                                                                      Hayward
                                                                                                                                                      Rat neuropeptide PP
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Best Local Similarity
Matches 27; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      36 AA;
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30
                      \boldsymbol{\vdash}
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Indels

36;

Length

Score 139; DB 21; Pred. No. 4.2e-06; ; Mismatches 7;

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14.48; 77.18;

Query Match Best Local Similarity 77. Matches 27; Conservative

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The present invention describes a modified therapeutic peptide (I) comprising a therapeutically active amino acid region (III) and a reactive group (II) (e.g. succinimidyl and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bands with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids.

(I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in vivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body.

Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases

C intracellular uptake and interference with physiological processes.

AAB90829 to AAB92441 represent peptides which can be used in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   attached to
                                                                                                                                                                                                                                                                                                                                             prevents
in vivo activity
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   conjugation;
Protection; endogenous therapeutic peptide; peptidase; conjugablood component; modification; succinimidyl; maleimido group; hydroxyl; thiol; hormone; growth factor; neurotransmitter.
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blood component; modification; succinimidyl; maleimido group;
hydroxyl; thiol; hormone; growth factor; neurotransmitter.
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                                                                                                                                                                                                                                                                                    Thibaudeau
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11 represent peptides which can be used the present invention.
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length of i
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                                                                                                                                                                                                                                                                                    Holmes DL,
                                                                                                                                                                                                                                                                                                                                             and attaching therapeutic peptides degradation, useful for increasing
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Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 139;
Pred. No. 4
                                                                                                                                                                                                                                                                                                                                                                                                         733pp; English
                                                                                                                                                                                                                                                                                    PG,
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                                                                                                                                                                                                                                                                                     Milner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14.4%;
ilarity 77.1%;
Conservative 1
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99US-0153406.
99US-0159783.
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                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 327;
                                                                                                                                                                                                                                                       (CONJ-) CONJUCHEM INC
                                                                                                                                                                                                                                                                                      Ezrin AM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first
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27; Conser
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10-SEP-1999;
15-OCT-1999;
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                                                            Homo sapiens
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                                                                                                                                    23-NOV-2000
                                                                                                                                                                                                                                                                                   DP,
                                                                                                                                                                                                                                                                                                                                            Modifying
peptidase
                                                                        Synthetic
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Matches
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The present invention describes a modified therapeutic peptide (I) comprising a therapeutically active amino acid region (III) and a reactive group (II) (e.g. succinimidyl and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids.

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Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases intracellular uptake and interference with physiological processes.

AAB90829 to AAB92441 represent invention.
                                                                                                                                                                                                                                                 attaching therapeutic peptides to albumin prevents
adation, useful for increasing length of in vivo activity
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                                                                                                                                                                                             Thibaudeau
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Pred. No. 0.00096;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Porcine small intestine YY peptide analogue #1
                                                                                                                                                                                             Holmes DL,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        || || :||| || :|:||| :|| :|| || || APSEPHHPGDQATQDQLAQYYSDLYQYITFVTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                        733pp; English
                                                                                                                                                                                             PG,
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                                                                                                                                                                                              Milner
                                                                                                          99US-0134406.
99US-0153406.
99US-0159783.
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60.0%;
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                                                                                2000WO-US13576
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                                                                                                                                                                                                                                                 and attaching
degradation,
                                                                                                                                                                                                                                                                                                        326;
                                                                                                                                                                  (CONJ-) CONJUCHEM INC
                                                                                                                                                                                             Ezrin AM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        36 AA;
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                             WO200069900-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   porcine small
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                                                                                                          17-MAY-1999;
10-SEP-1999;
15-OCT-1999;
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                                                                                17-MAY-2000;
                                                      23-NOV-2000.
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Synthetic.
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prevents
in vivo activity
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ed by
                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                   It has N-stable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       amino;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino hydroxyl; thiol; hormone; growth factor; neurotransmitter.
                                                                          Φ
                                                                                                                                 The synthetic analogue is derived from porcine peptide YY. It herminal substitutions which render the core structure more state analogue also has improved internal-secretion inducing and tropic activities. These include bradycardia, vasoconstriction acceleration of feeding behaviour. The analogue also inhibits smuscle contraction in the ductus deferens and the uterus caused electrical stimuli. See also AAR07277 and AAR07278.
                                                                       N-terminal analogue peptide(s) of porcine upper small intestin
having improved central and peripheral nerve-tropic actions
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length of
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                                                                                                                                                                                                                                                         11.4%; Score 110; DB 11; 50.0%; Pred. No. 0.0023; ive 11; Mismatches 6;
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increasing
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                                                                                                                                                                                                                                                                                                                      31 PLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and attaching therapeutic degradation, useful for in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PG,
                                                                                                            4; Page 1; 15pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                             36
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    99US-0134406.
99US-0153406.
99US-0159783.
                                                                                                                                                                                                                                                                                                                                                                                            standard; Peptide;
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                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO:400
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                        SUNTORY LTD.
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                                                WPI; 1990-316711/42
                                                                                                                                                                                                                                                                     | Similarity
17; Conser
                                                                                                                                                                                                                                   36 AA;
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10-SEP-1999;
15-OCT-1999;
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Synthetic.
27-FEB-1989;
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AAB91226
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bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids.

(I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in vivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body.

Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases intracellular uptake and interference with physiological processes.

AAB90829 to AAB92441 represent peptides which can be used in the exemplification of the present invention.

36 AA; Sequence

Gaps ; 0 36; Indels Length 9 th 11.4%; Score 110; DB 22; Similarity 52.9%; Pred. No. 0.0023; 18; Conservative 10; Mismatches 6; Query Match Best Local S Matches 18

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Database

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2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep:*
4: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*
6: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
7: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*
8: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
10: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep:*
11: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
12: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
13: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
14: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
17: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*

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SUMMARIES

	Appl	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appli	Appl	Appl	Appl	Appli	Appli	Appli	, Appl	Appli	Appl	Appli
c i	16,	7	٦,		7	7	4	7	H	20,	14,	10,	'n	4,	'n	70	'n	45,	5,
t i 0;	Ge	nce	nce		nce	nce	nce	nce	nce		Ge	e	nce	nce	nce	nce	nce		nce
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Sequence 3, Appli Sequence 2, Appli Sequence 4, Appli Sequence 15, Appl	equence 4 equence 2 quence 10 equence 1	Sequence 1068, Ap Sequence 6, Appli Sequence 1, Appli Sequence 4, Appli	Sequence 4, Appli Sequence 4, Appli Sequence 41, Appl Sequence 41, Appl	quence 21 quence 18 equence 18 equence 1	Sequence 43, Appl Sequence 6614, Ap Sequence 2, Appli Sequence 10, Appl
2 US-10-071-900-3 2 US-10-014-882-2 0 US-09-876-187-4 0 US-09-749-728B-15 0 US-09-862-027-48	0 US-09-770-689A-4 0 US-09-770-689A-2 US-10-025-380-1068 0 US-09-922-217-106	0 US-09-833-263-10 US-09-965-131-6 US-09-882-774-1 0 US-09-349-954A-4	0 US-09-912-436 0 US-09-907-007 US-09-854-133- 0 US-09-738-973	US-09-989-920-2 US-09-976-059-1 0 US-09-800-729- 0 US-09-800-729-	0 0
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ALIGNMENTS

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; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20020187523A1 5037143CD1
US-09-965-528-16
                          US-09-965-528-16

Sequence 16, Application US/09965528

Publication No. US20020187523A1

GENERAL INFORMATION:

APPLICANT: INCYTE GENOMICS, INC.

APPLICANT: YUE, Henry

APPLICANT: BANDAN, Olga

APP
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ORGANISM: Homo sapiens
FEATURE:
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LENGTH: 178
RESULT
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Ö Gaps . 0 Length 178; Indels Query Match
Best Local Similarity 100.0%; Pred. No. 2.9e-72, Matches 178; Conservative 0; Mismatches 0, 2

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APPLICANT: Shimkets, Richard A.
APPLICANT: Shimkets, Richard A.
APPLICANT: Shimkets, Richard A.
APPLICANT: Spytek, Kimberly A.
TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Sample REFERENCE: 15966-620 CIP
CURRENT APPLICATION NUMBER: US/09/737,149
CURRENT APPLICATION NUMBER: 60/170,564
PRIOR FILING DATE: 1999-12-14
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: 60/173,544
PRIOR FILING DATE: 1999-12-29
PRIOR FILING DATE: 1999-12-29
PRIOR APPLICATION NUMBER: 60/174,404
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                                               Length 36;
                                                                              Indels
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APPLICANT: Wahlestedt, Claes
APPLICANT: Ding, Bo
TITLE OF INVENTION:
FILE REFERENCE: 10806-143
CURRENT APPLICATION NUMBER: US/10/002,048A; CURRENT FILING DATE: 2001-11-02
PRIOR APPLICATION NUMBER: SE 0004035-2; PRIOR FILING DATE: 2000-11-03; NUMBER OF SEQ ID NOS: 6; SOFTWARE: PatentIn version 3.1
                                              DB 12;
3.1e-09;
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Pred. No. 0.056;
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Pred. No.
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APPLICATION NUMBER: 60/174,962
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Patent No. US20020077466A1
GENERAL INFORMATION:
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100.0%; Pi
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                                                                            Conservative
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; ORGANISM: Homo sapiens
US-10-016-969-1
                                                            Similarity
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-10-002-048A-2
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US-10-002-048A-2
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                                                               TRPRCVPQLGREIPAPGTLGPLHIPGHTLSPAPAPAPAPALGKTGHLCSTGLDQCALGK
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83;
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Pred. No. 1.5e-24;
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GENERAL INFORMATION:
TITLE OF INVENTION: NOVEL COMPOUNDS
FILE REFERENCE: GP-30015-C1
CURRENT APPLICATION NUMBER: US/09/757,712
CURRENT FILING DATE: 2001-01-10
PRIOR APPLICATION NUMBER: EP 97307187.1
PRIOR FILING DATE: 1997-09-16
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CURRENT FILING DATE: 2001-12-14
PRIOR APPLICATION NUMBER: US 60/256,216
PRIOR FILING DATE: 2000-12-15
                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION NUMBER: 09/110,715
PRIOR FILING DATE: 1998-07-07
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSEQ for Windows Version 3
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APPLICANT: Amylin Pharmaceuticals, Ir; APPLICANT: Pittner, Richard; APPLICANT: Young, Andrew; APPLICANT: Paterniti, James; TITLE OF INVENTION: Peptide YY and Pertine OF INVENTION: Disorders; FILE REFERENCE: 24001-010
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Patent No. US20010016339A1
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Conservative
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version
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SOFTWARE: Patentin v
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US-09-757-712-2
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TYPE: PF
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Matches
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S FOR THE ACTIVATION IMMUNE SYSTEM IN HUMANS AND ANIMALS
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COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSEQ for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/038,045
FILING DATE: 02-Jan-2002
                                                                                                                           2.0p
                                                                                                                                                                                                                                                                                                                                            NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 3909-0021-999
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 99; DB 12;
Pred. No. 0.043;
; Mismatches
                                                                                                                            Version
                                                                                                                                                                     FILING DATE: 02-Jan-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/181,941
FILING DATE: 28-Oct-1998
APPLICATION NUMBER: US 08/574,701
FILING DATE: 19-DEC-1995
APPLICATION NUMBER: FR 95 07831
FILING DATE: 29-JUN-1995
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          64
                                                                                     COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSEQ for Windows Vers
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/038,045
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MOLECULE TYPE: No. US20020150964Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
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1155 Avenue of the Pew York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Mor, Amram
Vouldoukis, Ioannis
Nicolas, Pierre
TITLE OF INVENTION: PEPTIDES FOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 2, Application US/10038045
Patent No. US20020150964A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: 650-493-4935
TELEFAX: 650-493-5556
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         36 amino acids
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ZIP: 10036-2811
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                             COUNTRY: USA
ZIP: 10036-2811
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10.3%;
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CORRESPONDENCE ADDRESS
ADDRESSEE: Pennie
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
CITY: New York STATE: NY
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US-10-038-045-2
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APPLICANT: Mor, Amram
Vouldoukis, Ioannis
Nicolas, Pierre
TITLE OF INVENTION: PEPTIDES FOR THE ACTIVATION
OF THE IMMUNE SYSTEM IN HUMANS AND ANIMALS
                                                                                                                                                                                                                 VPQL
                                                                                                                                                                                                                                              -AFALRPGCTYAVGAACTPRA
                                                                                                                                                                                                                                                                                                              61 PRELLDVGRDGRLAGRRRVSGAGRPLPLQVRLVARSAPTALSRRLRARTHLPGCGARARL
                                                                                                                                                                                                                                                                              - PALGKTGHL
                                                                                                                                                  Length 3014;
                                                                                                                                                                                  46
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                                                                                                                                                                                  63;
                                                                                                                                                Score 102; DB 10;
Pred. No. 3.7;
9; Mismatches 63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 12;
0.043;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31 PLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION NUMBER: US/10/016,969
CURRENT FILING DATE: 2001-12-14
PRIOR APPLICATION NUMBER: US 60/256,216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 99;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                CSTGLDQC-ALGKMVPTGRYETGGLAPG-HSA-
                                                                                                                                                                                                                                            12 LLLLAAAAL---PAMGLRAAAWEPRVPGGTR-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Amylin Pharmaceuticals, APPLICANT: Pittner, Richard APPLICANT: Young, Andrew APPLICANT: Paterniti, James TITLE OF INVENTION: Peptide YY and TITLE OF INVENTION: Disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-038-045-4
; Sequence 4, Application US/10038045
; Patent No. US20020150964A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US/10016969
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Conservative 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR FILING DATE: 2000-12-15
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.0
                                                                                                                                                10.6%;
ilarity 29.3%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie
     2000-08-09
                                     2.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: 24001-010
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 2, Application US Patent No. US20020141985A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                CGTGARLCGALCFPVP
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PRIOR FILING DATE: 2000
NUMBER OF SEQ ID NOS: 4:
SOFTWARE: PatentIn Ver.
                                                                                   TYPE: PRT
ORGANISM: Homo sapiens
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Best Local S
Matches 49
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                                                   SEQ ID NO 2
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ENGTH: 508
YPE: PRT
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Best Local S
Matches 38
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Best Local (
Matches 1
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Vouldoukis, Ioannis
Nicolas, Pierre
TITLE OF INVENTION: PEPTIDES FOR THE ACTIVATION
OF THE IMMUNE SYSTEM IN HUMANS AND ANI
                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                  Length 36;
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                                      FILING DATE: 28-Oct-1998
APPLICATION NUMBER: US 08/574,701
FILING DATE: 19-DEC-1995
APPLICATION NUMBER: FR 95 07831
FILING DATE: 29-JUN-1995
ATTORNEY/ÅGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 3909-0021-999
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/09/181,941
FILING DATE: 28-Oct-1998
APPLICATION NUMBER: US 08/574,701
FILING DATE: 19-DEC-1995
APPLICATION NUMBER: FR 95 07831
FILING DATE: 29-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 3909-0021-999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSEQ for Windows Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/038,045
                                                                                                                                                                                                                                                                                                                                                                                                              0.075;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of the Americas
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                              US/09/181,941
                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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02-Jan-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americal New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: linear
MOLECULE TYPE: No. US20020150964Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           31 PLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
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Pred. No.
<Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N: <Unknown>
DATA:
                                                                                                                                                                                             TELEPHONE: 650-493-4935
TELEFAX: 650-493-5556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/10038045
Patent No. US20020150964A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                        LENGTH: 36 amino acids
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COMPUTER READABLE FORM: TYPE: Diskette
                                                                                                                                                                                                       TELEFAX: 650-493-555
TELEX: 66141 PENNIE
TON FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                       TYPE: amino acid
STRANDEDNESS: single
            APPLICATION DATA: APPLICATION NUMBER:
                                                                                                                                                                                                                                                           CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                               10.0%;
larity 50.0%;
Conservative
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CLASSIFICATION:
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CLASSIFICATION:
PRIOR APPLICATION DATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mor
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                                                                                                                                                                                                                                                           SEQUENCE
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            PRIOR
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Best Local
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Sequence 20, Application US/10057136

Publication No. US20030021770A1

GENERAL INFORMATION:
APPLICANT: SCHLOM, JEFFREY
APPLICANT: KUFE, DONALD
APPLICANT: KUFE, DONALD
APPLICANT: FANTCALI, DENNIS
APPLICANT: GRITZ, LINDA
TITLE OF INVENTION: TUMOR-ASSOCIATED ANTIGEN
FILE REFERENCE: 700953/47113C
CURRENT APPLICATION NUMBER: US/10/057,136
CURRENT FILING DATE: 2002-01-25
PRIOR FILING DATE: 1999-08-03
PRIOR FILING DATE: 1999-08-03
PRIOR FILING DATE: 1998-02-24
PRIOR FILING DATE: 1997-02-24
PRIOR FILING DATE: 1997-02-24
PRIOR FILING DATE: 1997-02-24
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                                                                                                                                                                                                                                            Length 36;
                                                                                                                                                                                                                                                                             Indels
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                                                                                                                                                                                                                                           DB 0.11
                                                                                                                                                                                                                                         Score 94; DB
Pred. No. 0.11
8; Mismatches
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                                                                                                                                                                                                                                                                                                                            STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: No. US20020150964Ale
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-038-045-1
                                                                                                                                                                                                                                                                                                          PLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
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TELECOMMUNICATION INFORMATION:
   TELEPHONE: 650-493-4935
   TELEFAX: 650-493-5556
   TELEX: 66141 PENNIE
   INFORMATION FOR SEQ ID NO: 1:
   SEQUENCE CHARACTERISTICS:
   LENGTH: 36 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score
Pred.
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llarity 50.0%;
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larity 27.7%;
Conservative
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                                                                                                                     TYPE: amino acid
STRANDEDNESS: si
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US-10-078-650-14
; Sequence 14, Application U
; Patent No. US20020169301A1
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RE: PatentIn Ver.
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US-10-057-136-20
                                                                                                                                                                                                                                                         Similarity 17; Conser
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38; Conser
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Metabolic

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Treatment
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Pred. No. 0.15;
11; Mismatches
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; Sequence 4, Application US/10016969
; Patent No. US20020141985A1
; GENERAL INFORMATION:
; APPLICANT: Amylin Pharmaceuticals, Inc.
APPLICANT: Pittner, Richard
APPLICANT: Pottiner, Richard
APPLICANT: Paterniti, James
TITLE OF INVENTION: Peptide YY and Peptide Y
TITLE OF INVENTION: Disorders
FILE REFERENCE: 24001-010
CURRENT APPLICATION NUMBER: US/10/016,969
CURRENT FILING DATE: 2000-12-14
PRIOR FILING DATE: 2000-12-15
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.0
                              US-10-016-969-3
; Sequence 3, Application US/10016969
; Patent No. US20020141985A1
; GENERAL INFORMATION:
   APPLICANT: Amylin Pharmaceuticals, Inc.
   APPLICANT: Pittner, Richard
   APPLICANT: Poung, Andrew
   APPLICANT: Paterniti, James
   TITLE OF INVENTION: Peptide YY and Peptide Y
   TITLE OF INVENTION: Disorders
   FILE REFERENCE: 24001-010
   CURRENT APPLICATION NUMBER: US/10/016,969
; CURRENT FILING DATE: 2001-12-14
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Pred. No.
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US-10-038-045-3
; Sequence 3, Application US/10038045
; Patent No. US20020150964A1
; GENERAL INFORMATION:
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illarity 50.0%;
Conservative
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Similarity 45.5%;
15; Conservative 11
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PRIOR FILING DATE: 2000-12-15
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin version 3.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                      Homo sapiens
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17; Conserv
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SOFTWARE: Pat
SEQ ID NO 4
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US-10-016-969-4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-016-969-4
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                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 15
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Best Local
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                                                                                                                                                                                                                                                                                                                                      ORGANISM:
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US-10-016-969
                                                                                                                                                                                                                                                                                                          LENGTH:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Bamdad, Cynthia
APPLICANT: Bamdad, R. Shoshana
TITLE OF INVENTION: DIAGNOSTIC TUMOR MARKERS, DRUG SCREENING FOR
TITLE OF INVENTION: AND COMPOSITIONS AND METHODS FOR TREATMENT CHILE REFERENCE: M01015/70071
CURRENT APPLICATION NUMBER: US/09/996,069
CURRENT FILING DATE: 2001-11-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 1255;
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                                                                                                                                                                                                                                                                                                                                                                      - APLEPVYPGDNATPEQMA
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                                                                                                                                                                                                                                                                                                             Length 410;
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                                                       TYPE TRANSCRIPTION FACTOR
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Mismatches
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Pred. No. 8.3;
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                                                                                                                                                                                                                                                                                                               DB
          APPLICANT: Fujimoto, Katsumi
APPLICANT: Shin, Mei
APPLICANT: Kato, Yukio
TITLE OF INVENTION: GENES DEC2
TITLE OF INVENTION: GENES DEC2
FILE REFERENCE: 06501-101001
CURRENT APPLICATION NUMBER: US/10/078,650
CURRENT FILING DATE: 2002-02-19
PRIOR APPLICATION NUMBER: PCT/JP00/03991
PRIOR FILING DATE: 2000-06-19
PRIOR FILING DATE: 1999-08-19
NUMBER OF SEQ ID NOS: 18
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        VPTGRYETGGLAPGHSACPCCLFPPRYGKRHKEDT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 35
                                                                                                                                                                                                                                                                                                            th 9.6%; Score 93; Similarity 29.9%; Pred. No. 38; Conservative 6; Mismatc
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 10, Application US/0996069 Publication No. US20030036199A1 GENERAL INFORMATION:
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INFORMATION:
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SOFTWARE: Parano ID NO 10
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                                                                                                                                                                                                            SEQ ID NO 14
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                                                                                                                                                                                                                                                                                   -10-078-650-14
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Best Local
Matches 4
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Best Local
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GENERAL
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APPLICANT: Mor, Amram
Vouldoukis, Ioannis
Nicolas, Pierre
TITLE OF'INVENTION: PEPTIDES FOR THE ACTIVATION
OF THE IMMUNE SYSTEM IN HUMANS AND ANIMALS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ô
                                                                              UNDMERR OF SEQUENCES: 16
CORRESPONDENCES: 16
CORRESPONDENCE ADDRESSE: Pennie & Edmonds LLD
STREET: 1155 Avenue of the Americas
CITY: New York
TERET: 1155 Avenue of the Americas
CITY: New York
TIP: 10036-2811
COMPUTER: READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: REASESO for Windows
CUMRENT APPLICATION NUMBER: US/10/038,045
FILING DATE: 28-OCT-1998
APPLICATION NUMBER: US/05/181,941
FILING DATE: 28-OCT-1998
APPLICATION NUMBER: 19 08/574,701
FILING DATE: 28-OUN-1955
APPLICATION NUMBER: 30,742
FILING DATE: 29-UN-1955
ATOMERY AGENT INFORMATION:
NAME: COTUZZI, Laura A
ATOMERY AGENT INFORMATION:
NAME: COTUZZI, Laura A
ATOMERY AGENT INFORMATION:
TELEFONMUNICATION INFORMATION:
TYPE: amino acids
TYPE: am
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2003, 09:17:19 1, Search completed: March Job time : 16 secs

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      Copyright
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mode1 3 using search, protein OM protein

٠. 09:11:46 2003, H March Run on:

Search time 143 Seconds (without alignments) 802.535 Million cell up

updates/sec

. FSEWGSPHAAVPRELSPL MAAARLCLSLLLLSTCVALL US-09-965-528-16 964 score: Sequence: Title: Perfect

178

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4569144 chosen parameters residue 644733110 satisfying 4569144 segs, hits of number Searched tal

length: length:

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Database

summaries

Pending Patents AA Main:*

| cgn2_6/ptodata/1/paa/US06_COMB.pep:*
| cgn2_6/ptodata/1/paa/US06_COMB.pep:*
| cgn2_6/ptodata/1/paa/US08_COMB.pep:*
| cgn2_6/ptodata/1/paa/US081_COMB.pep:*
| cgn2_6/ptodata/1/paa/US081_COMB.pep:*
| cgn2_6/ptodata/1/paa/US082_COMB.pep:*
| cgn2_6/ptodata/1/paa/US083_COMB.pep:*
| cgn2_6/ptodata/1/paa/US084_COMB.pep:*
| cgn2_6/ptodata/1/paa/US085_COMB.pep:*
| cgn2_6/ptodata/1/paa/US085_COMB.pep:*
| cgn2_6/ptodata/1/paa/US085_COMB.pep:*
| cgn2_6/ptodata/1/paa/US085_COMB.pep:*
| cgn2_6/ptodata/1/paa/US085_COMB.pep:*
| cgn2_6/ptodata/1/paa/US095_COMB.pep:*
| cgn2_6/ptodata/1/paa/US095_COMB.pep:*
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| cgn2_6/ptodata/1/paa/US095_COMB.pep:*
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l by chance to have a the result being printed, se distribution. number of results predicted k n or equal to the score of the analysis of the total score to of number No. is the nun greater than c s derived by an score gand is Pred.

SUMMARIES

		Description	Segmence 16. Appl	10	9	86,	985	7
		Desc	35	, v	íď	Š		
		E GI	US-09-965-528-16	US-09-979-300-16	US-60-144-270-6	US-10-177-488-86	US-60-200-109-982	US-09-110-715-2
		DB	23	23	27	25	27	15
		Length DB	178	178	178	95	87	95
ф	Query	_	100.0	0	0	Ŋ.	39.3	39.3
		Score	964	964	964	441.5		378.5
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Sequence 2, Ap Sequence 32, A Sequence 981, Sequence 3324, Sequence 2397, equence 112, Ap Sequence 26, Ap Sequence 27, Ap Sequence 29, Ap Sequence 29, Ap Sequence 29, Ap Sequence 31, Ap Sequence 32, Ap Sequence 33, Ap Sequence 6128, Sequence 6128, Sequence 6138, Sequence 6138, Sequence 6138, Ap Sequence 6138, Ap Sequence 65, Ap Sequ	APP APP APP APP
S-09-757-712- S-10-036-657- S-60-190-718- S-60-190-718- S-60-190-718- S-60-190-718- S-60-190-718- S-60-190-718- T-US02-30533-	PCT-US00-34/5 PCT-US02-2391 3 US-08-994-94 7 US-09-310-70 1 US-09-708-34 1 US-09-708-34
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ALIGNMENTS

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RESULT 1

US-09-965-528-16

Sequence 16, Application US/09965528

GENERAL INFORMATION:

APPLICANT: TANG, Y. Tom

APPLICANT: TANG, Y. Tom

APPLICANT: TANG, W. Tom

APPLICANT: LAL, Preet;

APPLICANT: BANDMAN, Olga

FILE REFERENCE: FF-0701 USA

CURRENT APPLICATION NUMBER: 60/134,949

PRIOR FILING DATE: 1999-07-15

PRIOR FILING DATE: 1999-10-04

NUMBER OF SEQ ID NOS: 55

SEQ ID NO 16
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SEQ ID NO 6
LENGTH: 178
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Best Local S
Matches 178
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                                                                                      Length 178;
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APPLICANT: Yue, Henry
APPLICANT: Lal, Preeti
APPLICANT: Baughn, Mariah R.
APPLICANT: Azimzai, Yalda
TITLE OF INVENTION: EXTRACELLULAR SIGNALING MOLECULES
                                                                                                                                                                                                                                                                                                                                                Molecules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 964; DB 23;
Pred. No. 5.2e-73;
Mismatches 0;
                                                                                      Score 964; DB 23;
Pred. No. 5.2e-73;
Mismatches 0;
                                                                                                                                                                                                                                                                                  US-09-979-300-16

US-09-979-300-16

Sequence 16, Application US/09979300

GENERAL INFORMATION:

APPLICANT: Tang, Y. Tom
APPLICANT: Yue, Henry
TITLE OF INVENTION: Extracellular Signaling
FILE REFERENCE: [list docket ID here]
CURRENT APPLICATION NUMBER: US/09/979,300
CURRENT FILING DATE: 2001-11-19
NUMBER OF SEQ ID NOS: 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No: 5037143CD1
                                                     ID No: 5037143CD1
                                                                                                                                                                                                                                                                                                                                              Signaling
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                                                                                      100.0%;
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                                        NAME/KEY: misc feature
OTHER INFORMATION: Incyte
-09-965-528-16
                                                                                                            Conservative
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                     sapiens
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                                                                                                al Similarity
178; Conser
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178; Conser
          TYPE: PRT
ORGANISM: Homo
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178
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LENGTH: 17
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Best Local
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LENGTH:
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Matches
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100.0%; Pred. No. 5.2e-73;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                          Incyte Clone No: 5037143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Frantz, Gretchen
APPLICANT: Hillan, Kenneth J.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Koeppen, Hartmut
APPLICANT: Phillips, Heidi S.
APPLICANT: Phillips, Heidi S.
APPLICANT: Spencer, Susan D.
APPLICANT: Smith, Victoria
APPLICANT: Smith, Victoria
APPLICANT: Wu, Thomas D.
APPLICANT: Wu, Thomas D.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Compositions and Methods
TITLE OF INVENTION: Treatment of Tumor
FILE REFERENCE: P5001R1 US
CURRENT APPLICATION NUMBER: US/10/177, 488
CURRENT FILING DATE: 2002-10-01
PRIOR FILING DATE: 2001-06-20
PRIOR FILING DATE: 2001-06-20
                    US/60/144,270
-15
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Remaining Prior Application data removed
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PRIOR APPLICATION NUMBER: US 60/300,880
PRIOR FILING DATE: 2001-06-25
PRIOR APPLICATION NUMBER: US 60/301,880
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 2001-06-29
APPLICATION NUMBER: US 60/304,813
FILING DATE: 2001-07-11
APPLICATION NUMBER: US 60/312,312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/314,280
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UMBER: US 60/378,885
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                                                                                                                                                                                                                                                                                                                                                                        ;
FILE REFERENCE: PF-0720 P
CURRENT APPLICATION NUMBER: US
CURRENT FILING DATE: 1999-07-1
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PERL Program
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILING DATE: 2001-09-18 APPLICATION NUMBER: US 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FILING DATE: 2001-08-13
APPLICATION NUMBER: US 6
FILING DATE: 2001-08-22
APPLICATION NUMBER: US 6
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                                                                                                                                                              TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                              Local Similarity
les 178; Conser
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; NAME/KEY: misc feat
; OTHER INFORMATION:
US-60-144-270-6
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File Wrapper

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1 MAAARLCLSLLLLSTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRYINML
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                                                                                                                             83;
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                                                                                                     Length
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ISOLATED HUMAN SECRETED PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN
USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MVPTGRYETGGLAPGHSACPCCLFPPRYGKRHKEDTLAFSEWGSPHAAVPR
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                                                                                                     25;
                                                                                                     Score 441.5; DB 25
Pred. No. 3.2e-29;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 379; DB 27;
Pred. No. 5.5e-24;
); Mismatches 1
                                                                                                                                                                                                                                                                                                                                     Sequence 982, Application US/60200109
; GENERAL INFORMATION:
; APPLICANT: Beasley, Ellen
; TITLE OF INVENTION: ISOLATED HUMAN SECRETED;
; TITLE OF INVENTION: USES THEREOF
; FILE REFERENCE: CL000484
; CURRENT APPLICATION NUMBER: US/60/200,109
; CURRENT FILING DATE: 2000-04-27
; NUMBER OF SEQ ID NOS: 1348
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 982
; LENGTH: 87
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; Sequence 2, Application US/09110715
; GENERAL INFORMATION:
; APPLICANT: SOUTHAN, CHRISTOPHER
; TITLE OF INVENTION: NOVEL COMPOUNDS
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ratner & Prestia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STATE: PACTOR & Prestia STREET: P.O. Box 980 CITY: Valley Forge STATE: PA
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illarity 50.3%;
Conservative
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ilarity 53.4%;
Conservative
                                                                  Sapien
                ID NOS:
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86; Conser
                                                                                                                 Similarity 95; Conser
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ORGANISM: HUMAN
                                                              , ORGANISM: Homo
US-10-177-488-86
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SEQ , 95
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US-60-200-109-982
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Best Local S
Matches 86
                                                                                                      Query Match
Best Local S
Matches 99
                                                     TYPE: PRT
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                             SEQ ID NO
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7;
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Pred. No. 6.7e-24
; Mismatches
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Pred. No. 6.7e
4; Mismatches
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TITLE OF INVENTION: NOVEL COMPOUNDS; FILE REFERENCE: GP-30015-C1
CURRENT APPLICATION NUMBER: US/09/757,712; CURRENT FILING DATE: 2001-01-10; PRIOR APPLICATION NUMBER: EP 97307187.1; PRIOR FILING DATE: 1997-09-16; PRIOR FILING DATE: 1998-07-07; NUMBER OF SEQ ID NOS: 2; SOFTWARE: FastSEQ for Windows Version 3.0
                                                                           Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2
Windows Version 3.0
                                                                                                                                                                                               NAME: Prestia, Paul F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GP-30015
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0701
TELEFAX: 846169
                                                                                              MBER: US/09/110,715
07-JULY-1998
                               MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/110,71
FILING DATE: 07-JULY-1998
CLASSIFICATION:
                                                                                                                                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 97307187
FILING DATE: 16-SEP-1997
ATTORNEY/AGENT INFORMATION:
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Conservative
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illarity 47.2%;
Conservative
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 95 amino acids
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ZIP: 1948Z
COMPUTER READABLE I
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US-09-110-715-2
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US-09-757-712-2
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SEQ ID NO 2
LENGTH: 95
TYPE: PRT
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Best Local S
Matches 84
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Best Local
Matches 8
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Vivien
ISOLATED HUMAN SECRETED PROTEINS,
NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS,
USES THEREOF
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GENERAL INFORMATION:
APPLICANT: Bonazzi, Vivien
TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000406
CURRENT APPLICATION NUMBER: US/60/192,739
CURRENT FILING DATE: 2000-03-28
NUMBER OF SEQ ID NOS: 4532
SOFTWARE: FastSEQ for windows Version 4.0
SEQ ID NO 3324
LENGTH: 92
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        TRPRCVPQLGREIPAPGTLGPLHIPGHTLSPAPAPAPAPALGKTGHLCSTGLDQCALGK
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                                                                                 PRYGKRHKEDTLAFSGGGVPACCCPQVSLTP
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Pred. No. 3.5e-18;
5; Mismatches 16;
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Pred. No. 2.1e
0; Mismatches
                                                                                                                                   RESULT 10
US-60-196-718-4967
Sequence 4967, Application US/60196718
GENERAL INFORMATION:
TITLE OF INVENTION: ISOLATED HUMAN SECRETE;
TITLE OF INVENTION: USES THEREOF
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000456
CURRENT APPLICATION NUMBER: US/60/196,718
CURRENT FILING DATE: 2000-04-13
                                                                                                                                                                                                                                                                            CURRENT FILING DATE: 2000-04-13
NUMBER OF SEQ ID NOS: 7494
SOFTWARE: FastSEQ for Windows Version 4.0
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96.9%;
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Best Local Similarity 40.6%;
Matches 71; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                      . Similarity 96.
62; Conservative
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LOCATION: (1)...(92)
OTHER INFORMATION: Xaa
0-192-739-3324
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ORGANISM: HUMAN
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Best Local S
Matches 62
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                                                                                                 121 MVPTGRYETGGLAPGHSACPCCLFPPRYGKRHKEDTLAFSEWGSPHAAVPRELSPLDL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ISOLATED HUMAN SECRETED PROTEINS,
NUCLEIC AÇID MOLECULES ENCODING HUMAN SECRE
USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                  83;
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95;
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TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES
FILE REFERENCE: GP-70778B-C1
CURRENT APPLICATION NUMBER: US/10/036,657
CURRENT FILING DATE: 2001-12-21
NUMBER OF SEQ ID NOS: 107
SOFTWARE: FastSEQ for Windows Version 3.0
LENGTH: 95
                                                                                                                                                                                                                                                                                                                                                                                                                   24;
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Pred. No. 6.7e-24;
4; Mismatches 7;
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Pred. No. 5.2e-22;
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GENERAL INFORMATION:
APPLICANT: Beasley, Ellen
TITLE OF INVENTION: ISOLATED HUMAN SECRETEI
TITLE OF INVENTION: USES THEREOF
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000484
CURRENT APPLICATION NUMBER: US/60/200,109
CURRENT FILING DATE: 2000-04-27
NUMBER OF SEQ ID NOS: 1348
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                       RESULT 8
US-10-036-657-32
; Sequence 32, Application US/10036657
; GENERAL INFORMATION:
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illarity 47.2%;
Conservative
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84; Conserv
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82; Conser
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US-60-200-109-981
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LENGTH: 94
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Best Local S
Matches 82
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Best Local
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Length 36;
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Pred. No. 4e-08;
0; Mismatches 0;
DB 1;
4e-08;
                                                                                                                                                                                                                                                                                                                            N OF ENDOGENOUS THACTIVITY THROUGH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial CHER INFORMATION: Peptide US-09-657-276-391
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GENERAL INFORMATION:
APPLICANT: Amylin Pharmaceuticals, Inc.
APPLICANT: Pittner, Richard
APPLICANT: Paterniti, James
TITLE OF INVENTION: Peptide YY and Peptide Y
TITLE OF INVENTION: Disorders
FILE REFERENCE: 24001-010
CURRENT APPLICATION NUMBER: US/10/016,969
CURRENT FILING DATE: 2001-12-14
PRIOR FILING DATE: 2000-12-15
                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/657,276
CURRENT FILING DATE: 2000-09-07
PRIOR APPLICATION NUMBER: 60/134,406
PRIOR FILING DATE: 1999-05-17
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1999-09-10
PRIOR FILING DATE: 1999-10-18
NUMBER OF SEQ ID NOS: 1617
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Peptide
                                                                    30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                     1 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
 Score 186;
                                                                                                                                                                                                                                                        APPLICANT: Ezrin, Alan
APPLICANT: Milner, Peter
APPLICANT: Holmes, Darren
APPLICANT: Thibaudeau, Karen
TITLE OF INVENTION: PROTECTION OF EN
TITLE OF INVENTION: COMPONENTS
FILE REFERENCE: 2110
                                                                                                                                                          RESULT 14
US-09-657-276-391
; Sequence 391, Application US/09657276
; GENERAL INFORMATION:
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Best Local Similarity 100.0%; 1
Matches 35; Conservative 0;
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 19.3%;
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                                                                                                                                                                                                                         Conjuchem, Inc.
Bridon, Dominique
Ezrin, Alan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version
                                 Conservative
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S-10-016-969-1
  Query Match
Best Local Similarity
Matches 35; Conser
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LENGTH: 36
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-10-016-969-1
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APPLICANT:
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GENERAL INFORMATION:
APPLICANT: Bonazzi, Vivien
TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CLO00417
CURRENT APPLICATION NUMBER: US/60/194,243
CURRENT FILING DATE: 2000-04-03
NUMBER OF SEQ ID NOS: 3242
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 2397
LENGTH: 92
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; Sequence 25, Application PC/TUS0230533
; GENERAL INFORMATION:
; APPLICANT: Cowley, Michael
; APPLICANT: Low, Malcolm
; APPLICANT: Low, Malcolm
; APPLICANT: Bulter, Andrew
; TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus to 8; TITLE OF INVENTION: Modify Feeding Behavior
; FILE REFERENCE: 0899-63986
; CURRENT APPLICATION NUMBER: FCT/US02/30533
; CURRENT FILING DATE: 2002-09-24
; PRIOR APPLICATION NUMBER: 60/324,406
; PRIOR APPLICATION NUMBER: 60/324,109
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                                                          VPTGRYETGGLAPGHSACPCCLFPPRYGKRHKEDTLAFSEWGSPHAAVPRELSPL
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Pred. No. 3.5e-18;
; Mismatches 16;
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illarity 40.6%;
Conservative
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NUMBER OF SEQ ID NOS: 352
SOFTWARE: PatentIn version 3.1
SEQ ID NO 25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LOCATION: (1)...(92)
OTHER INFORMATION: Xaa
-60-194-243-2397
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71; Conser
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ORGANISM: HUMAN
                                                                                                                                              RESULT 12
US-60-194-243-2397
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; ORGANISM: Ov
PCT-US02-30533-2
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Best Local S
Matches 71
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Gaps ; Query Match
Best Local Similarity 100.0%; Pred. No. 4e-08;
Matches 35; Conservative 0; Mismatches 0; Indels

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Search completed: March 1, 2003, 09:16:27 Job time : 145 secs

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model 30 using search, protein OM protein

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US-09-965-528-16 964 score: Perfect Title:

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Scoring table:

Gapext -BLOSUM62 Gapop 10.0

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residues 93196565 494224 segs, Searched:

494224 satisfying chosen parameters hits of number stal

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Database

'ending_Patents_AA_New:*
/cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep:*
/cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep:*
/cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
/cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep:*
/cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
/cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
/cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:* Pending **1264597**

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SUMMARIES

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Result No.	Score	Quer	Length	DB	Ω	Description	
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9	177	18.4	36	Н	PCT-US02-31944A-27	equence 27	
7	<u></u>	ω.	36	-	-US02-30533A-2	ance 26	
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10	17	ω.	36	7	-US02-30533A-2	equence 29	
11	•	7.	37	~	-US02-31944A-3	e 32	
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13	9	7.	36	Н	CT-US02-31944A-	equence 3.	
14	9	7.	36	7	CT-US02-30533	equence 3.	
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25	0			9	-10-072-012-	equence 71;	
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US-10-072-012-709	US-10-072-012-711	PCT-US02-31944A-34	PCT-US02-30533A-34	PCT-US02-40891-1630	PCT-US02-40892-617	PCT-US02-40891-1675	PCT-US02-40892-631	PCT-US02-28859-107	US-10-241-220-107	US-10-225-567A-444	US-10-150-811-14	US-10-150-811-69	US-10-131-409-14	US-10-131-409-69	US-10-139-854-14	US-10-139-854-69	US-10-150-813-14	US-10-150-813-69
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109	109	106	106	104.5	104.5	104	104	102	102	102	102	102	102	102	102	102	102	102
27	28	29	30	31	32	33	34	32	36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

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Gaps
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RESULT 1
PCT-US02-31944A-25
Sequence 25, Application PC/TUS0231944A
GENERAL INFORMATION:
APPLICANT: Bloom, Stephen R.
APPLICANT: Bloom, Stephen R.
APPLICANT: Batterham, Rachel L.
APPLICANT: Ghatei, Mohammad A.
APPLICANT: Cowley, Michael
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Modification of Feeding Behavior
FILE REFRENCE: 899-63727
CURRENT APPLICATION NUMBER: US 60/324,406
PRIOR APPLICATION NUMBER: US 60/392,109
PRIOR FILING DATE: 2002-01-10
PRIOR APPLICATION NUMBER: US 60/392,109
PRIOR FILING DATE: 2002-01-10
PRIOR APPLICATION NUMBER: US 60/392,109
PRIOR FILING DATE: 2002-01-10
PRIOR APPLICATION NUMBER: US 60/392,109
PRIOR FILING DATE: 2002-01-10
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PRIOR APPLICATION NUMBER: US 60/392,109
PRIOR FILING DATE: 2002-01-10
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Pred. No. 3.8e-07
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PCT-US02-31944A-25
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ESULT 2
CT-US02-30533A-25
Sequence 25, Application PC/TUS0230533A
GENERAL INFORMATION:
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus to Modify Feeding Be 35 1 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR RESULT PCT-USO qq

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Gaps
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                                                                                                                                                                                                                                                                                         Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Imperial College Applicant: Bloom, Stephen R.
APPLICANT: Balom, Stephen R.
APPLICANT: Small, Caroline J.
APPLICANT: Batterham, Rachel L.
APPLICANT: Ghatei, Mohammad A.
APPLICANT: Cowley, Michael
APPLICANT: Cowley, Michael
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Modification of Feeding Behavior;
FILE REFERENCE: 899-63727
CURRENT APPLICATION NUMBER: DS 60/324,406
PRIOR APPLICATION NUMBER: US 60/324,406
PRIOR FILING DATE: 2001-09-24
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 335
NUMBER OF SEQ ID NOS: 335
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1.8e-06;
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Pred. No. 7.5e-07
; Mismatches
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ST-US02-31944A-27
Sequence 27, Application PC/TUS0231944A
GENERAL INFORMATION:
APPLICANT: Imperial College Innovations Limited
APPLICANT: Bloom, Stephen R.
APPLICANT: Small, Caroline J.
APPLICANT: Batterham, Rachel L.
APPLICANT: Ghatei, Mohammad A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   College Innovations Limited
FILE REFERENCE: 899-63986

CURRENT APPLICATION NUMBER: PCT/USO2/30533A

CURRENT FILING DATE: 2002-09-24

PRIOR APPLICATION NUMBER: US 60/324,406

PRIOR FILING DATE: 2001-09-24

PRIOR APPLICATION NUMBER: US 60/392,109

PRIOR FILING DATE: 2002-06-28

NUMBER OF SEQ ID NOS: 352
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GENERAL INFORMATION:
APPLICANT: Imperial College Innovation
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SOFTWARE: PatentIn version 3.1
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ilarity 97.1%;
Conservative
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94.3%;
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Best Local Similarity
Matches 33; Conser
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PCT-US02-31944A-26
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PCT-US02-31944A-26
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LENGTH: 36
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Best Local S
Matches 34
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GENERAL INFORMATION:
APPLICANT: Cowley, Michael
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus
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Pred. No. 7.5e-1; Mismatches
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APPLICANT: Batterham, Rachel L.
APPLICANT: Ghatei, Mohammad A.
APPLICANT: Gowley, Michael
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Modification of Feeding Be
FILE REFERENCE: 899-63727
CURRENT APPLICATION NUMBER: PCT/US02/31944A
CURRENT FILING DATE: 2002-09-24
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 335
SOFTWARE: Patentin version 3.1
                 FILE REFERENCE: 899-63986

CURRENT APPLICATION NUMBER: PCT/US02/30533A

CURRENT FILING DATE: 2002-09-24

PRIOR APPLICATION NUMBER: US 60/324,406

PRIOR FILING DATE: 2001-09-24

PRIOR APPLICATION NUMBER: US 60/392,109

PRIOR FILING DATE: 2002-06-28

NUMBER OF SEQ ID NOS: 352

SOFTWARE: Patentin version 3.1
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larity 100.0%; F.
Conservative 0;
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Bloom, Stephen R.
-11. Caroline J.
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illarity 97.1%;
Conservative
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PCT-US02-31944A-28
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Best Local Similarity
Motohes 35; Conser
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PCT-US02-30533A-25
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ENGTH: 36
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LENGTH: 36
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Best Local S
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APPLICANT:
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Sequence 29, Application PC/TUS0230533A
GENERAL INFORMATION:
APPLICANT: Cowley, Michael
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus to Modify Feeding
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1.8e-06;
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2.1e-06
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APPLICANT: Bloom, Stephen R.
APPLICANT: Batterham, Rachel L.
APPLICANT: Ghatei, Mohammad A.
APPLICANT: Cowley, Michael
APPLICANT: Cowley, Michael
APPLICANT: Cone, Roger
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Modification of Feeding Be
FILE REFERENCE: 899-63727
CURRENT FILING DATE: 2002-09-24
PRIOR FILING DATE: 2001-09-24
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-09
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 335
SOFTWARE: PatentIn version 3.1
FILE REFERENCE: 899-63986

CURRENT APPLICATION NUMBER: PCT/USO2/30533A

CURRENT FILING DATE: 2002-09-24

PRIOR APPLICATION NUMBER: US 60/324,406

PRIOR FILING DATE: 2001-09-24

PRIOR FILING DATE: 2002-06-28

NUMBER OF SEQ ID NOS: 352

SOFTWARE: Patentin version 3.1

LENGTH: 36
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Pred. No.
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ilarity 94.3%;
Conservative
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Best Local Similarity 94.3%;
Matches 33; Conservative
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PCT-US02-31944A-29
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PCT-US02-30533A
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Best Local
Matches 3
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GENERAL INFORMATION:

APPLICANT: Cowley, Michael

APPLICANT: Cone, Roger

APPLICANT: Low, Malcolm

APPLICANT: Butler, Andrew

TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus to

FILE REFERENCE: 899-63986

CURRENT APPLICATION NUMBER: PCT/US02/30533A

CURRENT FILING DATE: 2002-09-24

PRIOR APPLICATION NUMBER: US 60/324,406

PRIOR FILING DATE: 2001-09-24

PRIOR APPLICATION NUMBER: US 60/392,109
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; APPLICANT: Cone, Roger; APPLICANT: Low, Malcolm; APPLICANT: Low, Malcolm; APPLICANT: Butler, Andrew; TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus;
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                                APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Modification of Feeding Behavior
FILE REFERENCE: 899-63727
CURRENT APPLICATION NUMBER: PCT/US02/31944A
CURRENT FILING DATE: 2002-09-24
PRIOR APPLICATION NUMBER: US 60/324,406
PRIOR FILING DATE: 2001-09-24
PRIOR FILING DATE: 2001-09-24
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 335
SOFTWARE: PatentIn version 3.1
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Pred. No. 1
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ilarity 94.3%;
Conservative
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PRIOR APPLICATION NUMBER: US 6
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 352
SOFTWARE: PatentIn version 3.1
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ilarity 94.3%;
Conservative
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T-US02-31944A-27
   Cowley, Michael
Cone, Roger
              Cone, kuy
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33; Conserv
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Best Local Similarity
Matches 33; Conser
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ENGTH: 36
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LENGTH: 36
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Matches 33
                  APPLICANT: APPLICANT:
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SSULT 14
Sequence 3, Application PC/TUS0230533A
GENERAL INFORMATION:
APPLICANT: Cowley, Michael
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus to Modify Feeding
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APPLICANT: Bloom, Stephen R.
APPLICANT: Batterham, Rachel L.
APPLICANT: Batterham, Rachel L.
APPLICANT: Ghatei, Mohammad A.
APPLICANT: Cowley, Michael
APPLICANT: Cowley, Malcolm
APPLICANT: Cowe, Malcolm
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Modification of Feeding Behavior-
FILE REFERENCE: 899-63727
CURRENT APPLICATION NUMBER: PCT/US02/31944A
CURRENT FILING DATE: 2002-09-24
PRIOR FILING DATE: 2001-09-24
PRIOR FILING DATE: 2001-09-24
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 335
SOFTWARE: PatentIn version 3.1
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.3e-06;
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FILE REFERENCE: 899-63986

CURRENT APPLICATION NUMBER: PCT/US02/30533A

CURRENT FILING DATE: 2002-09-24

PRIOR APPLICATION NUMBER: US 60/324,406

PRIOR FILING DATE: 2001-09-24

PRIOR APPLICATION NUMBER: US 60/392,109

PRIOR FILING DATE: 2002-06-28

NUMBER OF SEQ ID NOS: 352

SOFTWARE: Patentin version 3.1

SEQ ID NO 32

LENGTH: 37
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Pred. No. 8e-0
1; Mismatches
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Pred. No. 6.
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Bloom, Stephen R.
Small, Caroline J.
Batterham, Rachel L.
Ghatei, Mohammad A.
Cowley, Michael
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illarity 91.4%;
Conservative
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91.7%;
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PCT-US02-30533A-32
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Best Local Similarity
Matches 32; Conser
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                                                                                                                                                                                             TYPE: PRT
ORGANISM:
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Best Local S
Matches 33
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GENERAL INFORMATION:
APPLICANT: Cowley, Michael
APPLICANT: Cone, Roger
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
TITLE OF INVENTION: Assessment of Neurons in the Arcuate Nucleus
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APPLICANT: Butler, Andrew
TITLE OF INVENTION: Modification of Feeding Behavior
FILE REFERENCE: 899-63727
CURRENT APPLICATION NUMBER: PCT/US02/31944A
CURRENT FILING DATE: 2002-09-24
                                                                                                                                                                                                                                                           1;
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Pred. No. 6.3e-06;
2; Mismatches 0;
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Bloom, Stephen R.
Small, Caroline J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          64
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Pred. No. 2.1e-
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PRIOR FILING DATE: 2001-09-24
PRIOR APPLICATION NUMBER: GB 0200507.2
PRIOR FILING DATE: 2002-01-10
PRIOR APPLICATION NUMBER: US 60/392,109
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 335
SOFTWARE: Patentin version 3.1
                      CURRENT APPLICATION NUMBER: PCT/US02/30532
CURRENT FILING DATE: 2002-09-24
PRIOR APPLICATION NUMBER: US 60/324,406
PRIOR FILING DATE: 2001-09-24
PRIOR APPLICATION NUMBER: US 60/392,109
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 352
SOFTWARE: Patentin version 3.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 32, Application PC/TUS0231944A GENERAL INFORMATION:
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Ghatei, Mohammad A.
Cowley, Michael
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illarity 91.7%;
Conservative 2
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94.3%;
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PCT-US02-30533A-32
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ENGTH: 36
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LENGTH: 37
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APPLICANT:
APPLICANT:
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PCT-US02-31944A-31
Sequence 31, Application PC/TUS0231944A
GENERAL INFORMATION:
APPLICANT: Imperial College Innovations Limited
APPLICANT: Small, Caroline J.
APPLICANT: Bloom, Stephen R.
APPLICANT: Batterham, Rachel L.
APPLICANT: Ghatei, Mohammad A.
APPLICANT: Cowley, Michael
APPLICANT: Low, Malcolm
APPLICANT: Butler, Andrew
CURRENT FILING DATE: 2002-09-24
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-01-10
PRIOR FILING DATE: 2002-06-28
NUMBER OF SEQ ID NOS: 335
SOFTWARE: PatentIn version 3.1
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Pred. No. 8.4e-05
1; Mismatches
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Pred. No. 8e-06;
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                              PCT/US02/30533A
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CURRENT APPLICATION NUMBER: PCT/US02/30533;
CURRENT FILING DATE: 2002-09-24

PRIOR APPLICATION NUMBER: US 60/324,406

PRIOR FILING DATE: 2001-09-24

PRIOR APPLICATION NUMBER: US 60/392,109

PRIOR FILING DATE: 2002-06-28

NUMBER OF SEQ ID NOS: 352

SOFTWARE: Patentin version 3.1

SEQ ID NO 3

LENGTH: 36
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Best Local Similarity 82.9%;
Matches 29; Conservative
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                                                                                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US02-30533A-3
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Best Local Similarity
Matches 32; Conser
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LENGTH: 36
TYPE: PRT
ORGANISM: M
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US-09-965-528-16 964 1 MAAARLCLSLLLLS score: Title: Perfect

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Scoring table:

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Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

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SUMMARIES

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		106-2	54-3	94-	2	91-	21-7	$\boldsymbol{\omega}$	38-3	38-3	29-1		5	4		29-	81-9	5-14	5-14	93-4		92-9	81-9	81 - 9	55-6	173-6	25-6	82-9
		08-8	0-60	0	-60	09-2	08-2	0	0	0	08-3	0	0-60	0	0-60	0	09-1	-us9	-us9	08-0	0	09-1	09-1	09-1	08-5	0-60	07-9	07-8
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ALIGNMENTS

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THOMAS
METHODS OF TREATING NON-INSULIN
DEPENDENT DIABETES MELLITUS WITH PANCREATIC
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RESULT 1
US-08-806-203-1
; Sequence 1, Application US/08806203
; Patent No. 5830434
; GENERAL INFORMATION:
APPLICANT: TAYLOR, IAN L.
APPLICANT: GETTYS, THOMAS
TITLE OF INVENTION: METHODS OF TREATING NON-INSULIN
TITLE OF INVENTION: DEPENDENT DIABETES MELLITUS WITH
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSE: NEEDLE & ROSENBERG, P.C.
STREET: Suite 1200, 127 Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: Georgia
COUNTRY: USA
ZIP: MEDIUM TYPE: Floppy disk
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
BILLING DATE:
BILLING
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FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Spratt, Gwendolyn D.
REGISTRATION NUMBER: 36,016
REFERENCE/DOCKET NUMBER: 19070.0028
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
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INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
LENGTH: 36 amino acids
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; STRANDEDNESS: not
; TOPOLOGY: linear
; MOLECULE TYPE: pepti
US-08-806-203-1
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Ø Indel Score 186; DB 2; I Pred. No. 3.7e-12; 0; Mismatches 0; th 19.3%; Sc Similarity 100.0%; I 35; Conservative 0; Query Match Best Local S Matches 35

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Gaps

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64 30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR 1 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR a ò

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VENTION: A DNA Molecule Encoding
VENTION: Prepro-Neuropeptide Y, a
VENTION: Thereof
                                                                                                                             Associated NPY
                                                                                          APPLICANT: Lacroix, Jean S.
APPLICANT: Grouzmann, Eric
TITLE OF INVENTION: Template Associated NE
TITLE OF INVENTION: Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Vinson & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BMR350/48000
                                                                                                                                                                                                                                 STATE: D.C.
COUNTRY: U.S.
ZIP: 20004-1008
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/054,393
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Sanzo, Michael A.
REGISTRATION NUMBER: 36,912
REFERENCE/DOCKET NUMBER: BMR350/480
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 6, Application US/08994946A Patent No. 6046317 GENERAL INFORMATION:
RESULT 2
US-09-054-393-1
; Sequence 1, Application US/09054393
; Patent No. 6017879
; GENERAL INFORMATION:
; APPLICANT: Mutter, Manfred
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY: not relevant MOLECULE TYPE: peptide HYPOTHETICAL: NO ANTI-SPNOOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Koulu, Markku
APPLICANT: Karvonen, Matti
APPLICANT: Pesonen, Ullamari
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELEPHONE: (202)639-6585
TELEFAX: (202)639-6604
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
LENGTH: 97 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: amino acids STRANDEDNESS: not
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TITLE OF INVENTION: Pre;
TITLE OF INVENTION: Then
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
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S-09-054-393-1
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APPLICANT:
APPLICANT:
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STATE:
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/229,900
                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 4
US-09-229-900-1
; Sequence 1, Application US/09229900
; Patent No. 6288029
; GENERAL INFORMATION:
; APPLICANT: Mutter, Manfred
; APPLICANT: Lacroix, Jean S.
; APPLICANT: Grouzmann, Eric
; TITLE OF INVENTION: Template Associated NPY Y2-
; TITLE OF INVENTION: Agonists
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Vinson & Elkins LLP
; STREET: 1455 Pennsylvania Avenue, N.W.
; CITY: Washington
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 103.5; DB 3;
Pred. No. 0.0025;
2; Mismatches 18;
   P.C
                                                                                                                                                                                              19-DEC-1997
                                                                                                                                                                                                                                                                              ATTORNEY/AGENT INFORMATION:
NAME: Ihnen, Jeffrey L.
REGISTRATION NUMBER: 28,957
REFERENCE/DOCKET NUMBER: 2328-110
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-783-6040
TELEFAX: 202-783-6031
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 97 amino acids
      8
     Ernst
ADDRESSEE: Rothwell, Figg, Er
STREET: 555 13th Street NW, S
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
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illarity 39.1%;
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CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                        SOFTWARE: Patentin ReleCURRENT APPLICATION DATA:
APPLICATION NUMBER: US/FILING DATE: 19-DEC-195
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TOPOLOGY: linear
NLECULE TYPE: prot
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ZIP: 20004-1008
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APPLICANT: Koulu, Markku
APPLICANT: Karvonen, Matti
APPLICANT: Pesonen, Ullamari
APPLICANT: Vusitupa, Matti
TITLE OF INVENTION: Athersclerosis of a Person's Risk of Developing
TITLE OF INVENTION: Athersclerosis or Diabetic Retinopathy Based
TITLE OF INVENTION: Y Gene.
                                                                                                                                                                                                                                                                                         MAAARLCLSLLLLSTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRY
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Pred. No. 0.0025;
2; Mismatches 18;
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                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                             ; Score 103.5;
; ?Pred. No. 0.0
12; Mismatches
BMR350/48000
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CURRENT APPLICATION NUMBER: US/09/291,994
CURRENT FILING DATE: 1999-04-15
NUMBER OF SEQ ID NOS: 6
SOFTWARE: Patentin Ver. 2.0
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US-08-221-750A-5
; Sequence 5, Application US/08221750A
; Patent No. 5643747
; GENERAL INFORMATION:
; APPLICANT: Baker, Steven M.
; APPLICANT: Deich, Robert A.
; TITLE OF INVENTION: Genes for the
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 6, Application US/09291994
Patent No. 6312898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12;
          TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)639-6585
TELEFAX: (202)639-6604
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 97 amino acids
                                                                                                                     SS: not relevant not relevant
                                                                                                                                                                                                                              10.7%;
39.1%;
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39.1%;
REFERENCE/DOCKET NUMBER:
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9 LSGLTLALSLLV---CLGAL
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LSGLTLALSLLV---CLGAL
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                                                                                                                                              peptide
NO
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US-09-291-994-6
                                                                                                    TYPE: amino acid
STRANDEDNESS: no
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25; Conserv
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25; Conser
                                                                                                                                                 MOLECULE TYPE:
                                                                                                                                                              HYPOTHETICAL:

ANTI-SENSE:

US-09-229-900-1
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                                                                                                                                TOPOLOGY:
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.09-291-994-6
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Best Local S
Matches 25
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Best Local
Matches 2
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Pred. No. 0.04;
14; Mismatches
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Suite 510
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                                                                                                                                                                                                                  FILING DATE: 31-MAR-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/221,750A
                                                                                                                                                                                                                                                                                                                                                                  ACC93-01A
                                                Smith
                                                                                                                                                   MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/221,75(
                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 08/031,61
FILING DATE: 15-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Carroll, Alice O.
REGISTRATION NUMBER: 33,542
REFERENCE/DOCKET NUMBER: ACC93-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tabin &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Boublik, Jaroslav H.
APPLICANT: Rivier, Jean E.F.
APPLICANT: Brown, Marvin R.
APPLICANT: Scott, Neal A.
TITLE OF INVENTION: NPY PEPTIDE AN
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LGGARSPAGPGCDATTGPRRRRTDGFFP-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-07-882-923-3
; Sequence 3, Application US/07882923
; Patent No. 5328899
; GENERAL INFORMATION:
                                             3: Hamilton, Brook,
Two Militia Drive
                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
FORMATION FOR SEQ ID NO: 5:
   Holotoxin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10.4%; 27.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        505 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RHKEDTLAFSEWGSPHAAVP
TITLE OF INVENTION: Holo
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, E
STREET: Two Militia Dr
CITY: Lexington
STATE: MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS
                                                                                                                ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 55; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
STREET: 42
CITY: La J
STATE: CA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-08-221-750A-5
                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TOPOLOGY
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e 1, Application US/08329151
                                                                                                   porcine peptide YY
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                                                                                                                                           10.3%;
Similarity 47.1%;
16; Conservative 1
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amino acid
                              36 amino acids
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                                                                      peptide
N FOR SEQ ID NO
CHARACTERISTIC
                                          TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: pept:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
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Best Local Similarity
Matches 16; Conser
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                                                                                                   ), ORGANISM:
US-08-338-395-1
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US-08-338-395-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                                  RESULT 9
US-08-338-395-2
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                              LENGTH:
 INFORMATION
SEQUENCE (
                                                                                                                                                Query Match
Best Local
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US-08-329-11
; Sequence
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Matches
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TITLE OF INVENTION: TREATMENT OF PANCREATIC TUMORS
TITLE OF INVENTION: PEPTIDE YY AND ANALOGS THEREOF
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: POMS, SMITH, LANDE & ROSE
STREET: 2029 Century Park, East 38th Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                         Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7;
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Pred. No. 0.002;
11; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 PAKPEAPGEDASPEELSRYYASLRHYLNLVTRQR
                                                                                                                                                      CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/503,198
FILING DATE: 30-MAR-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/219,596
FILING DATE: 15-JUL-1988
ATTORNEY/AGENT INFORMATION:
NAME: Schumann, James J.
REGISTRATION NUMBER: 20,856
REFERENCE/DOCKET NUMBER: 52864
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEFAX: 619-552-0095
INFORMATION FOR SEQ ID NO: 3:
                ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Va
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                                                                                                                   APPLICATION NUMBER: US/07/882,923
FILING DATE: 19920512
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1, Application US/08338395
Patent No. 5574010
GENERAL INFORMATION:
APPLICANT: McFadden, David W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US/08/338
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Oldenkamp, David J
REGISTRATION NUMBER: 29421
REFERENCE/DOCKET NUMBER: 1070
TELECOMMUNICATION INFORMATION:
TELEPHONE: 310-788-5046
TELEFAX: 310-277-1297
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ilarity 47.1%;
Conservative
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AMINO ACID
                                                                                                                                                                                                                                                                                                                           TELEPHONE: 619-552-13
TELEFAX: 619-552-0095
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                 peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                   unknown
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16; Conser
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; MOLECULE TYPE:
US-07-882-923-3
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STATE: C
COUNTRY:
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TYPE: A
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US-08-338-395-1
     COUNTRY:
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Matches
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                                  Indels
                                                                                                                                                                                   TITLE OF INVENTION: TREATMENT OF PANCREATIC TUMORS WIT TITLE OF INVENTION: PEPTIDE YY AND ANALOGS THEREOF NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: POMS, SMITH, LANDE & ROSE STREET: 2029 Century Park East 38th Floor CITY: Los Angeles STATE: CA
  Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7;
                                 7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Version #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 1;
0.002;
Score 99; DB 1;
Pred. No. 0.002;
11; Mismatches
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| PIKPEAPGEDASPEELNRYYASLRHYLNLVTRQR
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                                                                                     PLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10.3%; Score 99;
larity 47.1%; Pred. No.
Conservative 11; Mismatc
                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ve
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/338,395
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Oldenkamp, David J
REGISTRATION NUMBER: 29421
REFERENCE/DOCKET NUMBER: 107012
TELEPHONE: 310-788-5046
TELEFAX: 310-277-1297
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'A:
US/08/338,395
                                                                                                                                                                                       Sequence 2, Application US/08338395
Patent No. 5574010
GENERAL INFORMATION:
APPLICANT: McFadden, David W
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Patent No. 6017879

GENERAL INFORMATION:

APPLICANT: Mutter, Manfred
APPLICANT: Lacroix, Jean S.
APPLICANT: Lacroix, Jean S.
APPLICANT: Grouzmann, Eric
TITLE OF INVENTION: Template Associated NPY Y2-Receptor
TITLE OF INVENTION: Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Vinson & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.
ZIP: 20004-1008
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: DatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 36;
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Pred. No. 0.002;
1; Mismatches
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                                                                                                                                                                                         ATTORNEI/AGENT
NAME: Paul T. Clark
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00537/105001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BMR350/48000
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                                   US/08/329,151
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                                                                                                            08/038,534
                                                                                                                                                 08/109,326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: Sanzo, Michael A.
REGISTRATION NUMBER: 36,912
REFERENCE/DOCKET NUMBER: BMR3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 639-6585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 2, Application US/09054393
Patent No. 6017879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 47.1%; Pr
Matches 16; Conservative 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          not relevant
                                                                                                                                                                                                                                                                                                                                        2
                                                                                                                                                             FILING DATE: 08/19/93
ATTORNEY/AGENT INFORMATION:
NAME: Paul T. Clark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (202)639-6604 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CHARACTERISTICS: 36 amino acids
                                                                                                                                                                                                                                                                                                TELEFAX: (617) 542-89
TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                    CURRENT APPLICATION DATA
                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: C
FILING DATE: 3/29/93
APPLICATION NUMBER: (
                                 APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION: 51
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FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                   N/A
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                                                                                                                                                                                                                                                                                                                                                                                                amino acid
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US-08-329-151-2
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                                                                                                                                                                                                                                                                                                                                                                          LENGTH:
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OF PEPTIDE YY AND USES
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                                                                                                                                                                            CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 50Z or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/329,151
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A.
OF PEPTIDE YY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              64
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PAKPEAPGEDASPEELSRYYASLRHYLNLVTRQR 35
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ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 50Z or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30,162
ER: 00537/105001
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; Sequence 2, Application US/08329151
; Patent No. 5604203
; GENERAL INFORMATION:
; APPLICANT: Balasubramaniam, A.
; TITLE OF INVENTION: THEREOF
; TITLE OF INVENTION: THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Paul T. Clark
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 0053
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
                                                                                                                                             ADDRESSEE: Fish & Richardson STREET: 225 Franklin Street
atent No. 5604203
GENERAL INFORMATION:
APPLICANT: Balasubramaniam, A
TITLE OF INVENTION: THEREOF
TITLE OF OF THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION: 514 FRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/038
FILING DATE: 3/29/93
APPLICATION NUMBER: 08/109
FILING DATE: 08/19/93
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
H
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TELEX: 200154
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS
                                                                                                       NUMBER OF SEQUENCES: 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Massachusetts
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; STRANDEDNESS: N/, TOPOLOGY: linear US-08-329-151-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       amino acid
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16; Conserv
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STATE: Massacl
COUNTRY: U.S.1
ZIP: 02110-28
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Matches 16
                                 GENERAL
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Gaps

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core 99; DB 3;
red. No. 0.002;
Mismatches
               Fifth
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ATTORNEY/AGENT INFORMATION:
NAME: Sanzo, Michael A.
REGISTRATION NUMBER: 36,912
REFERENCE/DOCKET NUMBER: BMR350/48000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)639-6585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          X.
                                                                                                                                               SOFTWARE: Word 97

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/047,986B
FILING DATE: 25 March 1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Kristyne A. Bullock
REGISTRATION NUMBER: 9183030/508
TELECOMMUNICATION INFORMATION:
TELEPHONE: (513) 651-6731
TELEFAX: (513) 651-6981
TELEX: 21-4396 F&J Cin
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31 PLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 99;
Pred. No.
                                                                                                                                                                                                                                                                         9183030/508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2, Application US/09229900; Patent No. 6288029; GENERAL INFORMATION:
APPLICANT: Mutter, Manfred
APPLICANT: Lacroix, Jean S.
APPLICANT: Grouzmann, Eric
TITLE OF INVENTION: Template Associate
TITLE OF INVENTION: Agonists
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Vinson & Elkins LLP
STREET: 1455 Pennsylvania Avenue, N.
 & Jacobs, L.L.P.
Center, 201 East
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US/09/229,900
                                                                                                       inch,
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ADDRESSEE: Frost & Jacobs, L
STREET: 2500 PNC Center, 201
CITY: Cincinnati
STATE: OH
COUNTRY: USA
ZIP: 45202-4182
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in
COMPUTER: IBM compatible
OPERATING SYSTEM: MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11;
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ZIP: 20004-1008
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC
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                                                                                                                                                                                                                                                                                                                                                                                  36 amino acids
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APPLICATION NUMBER: US
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GY: linear
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SOFTWARE: Patent
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16; Conser
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US-09-229-900-2
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STATE:
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Pred. No. 0.002;
1; Mismatches
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                                                                                                                                                                                                                                                                                               APPLICANT: Balasubramanian, Ambikaipakan TITLE OF INVENTION: PEPTIDE YY ANALOGS NUMBER OF SEQUENCES: 20 CORRESPONDENCE ADDRESS: ADDRESSEE: Frost & Jacobs, L.L.P. STREET: 2500 PNC Center, 201 East Fifth CITY: Cincinnati
                                                                                                                      Mismatches
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YY ANALOGS
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R: 9183030/508
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                                                                                                                                                       PLEPVY PGDNATPEQMAQYAADLRRY INMLTRPR
                                                                                            Score 99;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                           STATE:
COUNTRY: USA
ZIP: 45202-4182
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1
~~MPUTER: IBM compatible
~~~TEM: MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       'A:
US/09/047,986B
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APPLICANT: Balasubramanian, Ambika; TITLE OF INVENTION: PEPTIDE YY ANA; NUMBER OF SEQUENCES: 20
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                       1, Application US/09047986B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11;
                                                                                                                      11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELECOMMUNICATION INFORMATION:
TELEPHONE: (513) 651-6731
TELEFAX: (513) 651-6981
TELEX: 21-4396 F&J Cin
INFORMATION FOR SEQ ID NO: 12:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 25 March 1998
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.3%;
illarity 47.1%;
Conservative 13
                                                                                        10.3%;
illarity 47.1%;
Conservative 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Kristyne A. Bullock
REGISTRATION NUMBER: 42,3
REFERENCE/DOCKET NUMBER:
   not relevant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT APPLICATION DATA APPLICATION NUMBER: U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CHARACTERISTICS
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                  peptide
                                                                                                                                                                                                                                                          Sequence 1, Application
Patent No. 6046167
GENERAL INFORMATION:
APPLICANT: Balasub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 amino acid
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Best Local Similarity
Matches 16; Conser
                                                                                                         l Similarity
16; Conser
                MOLECULE TYPE: poury HYPOTHETICAL: NO ANTI-SENSE: NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-047-986B-2
                                                                                                                                                                                                                                SULT 13
-09-047-986B-1
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     TOPOLOGY:
                                                              -09-054-393-2
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1.44 MB storage
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Query Match
Best Local Similarity 47.1%; Pred. No. 0.002;
Matches 16; Conservative 11; Mismatches 7; Indels

; TELEFAX: (202)639-6604
; INFORMATION FOR SEQ ID NO: 2:
    SEQUENCE CHARACTERISTICS:
    LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
    TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-229-900-2
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Search completed: March 1, 2003, 09:13:57 Job time: 33 secs

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model **∑** using search, protein OM proteiņ Search time 30 Seconds (without alignments) 1222.546 Million cell •-09:11:12 2003, 'n March Run on:

pdates/sec 5-528-1 US-09-965 964

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MAAARLCLSLLLLSTCVALL score Sequence: Title: Perfect

table:

Scoring

'n. 206047115 0 Gapext 671580 segs, BLOSUM62 Gapop 10.0 Searched

671580 satisfying chosen parameters residues hits οŧ btal number

2000000000 length: length: sed sed 0B 0B Minimum Maximum

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 s

summaries

Database

sp_plant:*
sp_rodent:*
sp_virus:*
sp_virus:*
sp_unclassified:*
sp_rvirus:*
sp_bacteriap:*
sp_archeap:* SPTREMBL_21:*

1: sp_archea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*

No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, a derived by analysis of the total score distribution. Pred. No score gand is

V2 mus musculu
E4 paralichthy
7 ovis aries
5 macaca mula
E3 paralichthy
6 ovis aries
58 typhlonecte
1 bacillus su c9 streptomyce 5 homo sapien c7 cyprinus ca 52 bacillus su 3 ictalurus p 0 mus musculu myxococcus sus scrofa Description Q99kl0 Q919d3 Q91xd0 O68872 Q90wf7 Q9spf7 Q9xsw6 Q90wf3 Q9tsi6 Q9pw68 O52861 Q9rkr9 Q9rkr9 SUMMARIES Q9GKL0 Q919D3 Q91XD0 O68872 Q90WF4 Q8SPF7 Q9SSW6 Q90WF3 Q97SI6 Q9PW68 O52861 Q9RKR9 Q9RKR9 6 6 6 6 7 13 13 6 13 16 4 13 16 DB Length Query Match 17.55 111.8 111.5 111.5 110.9 110.9 110.6 110.6 110.6 110.6 169 1113.5 1113.5 110.5 110.5 104.5 102.5 102.5 102.5 102.5 Score Result No.

j6k9 rubella 6500 rubella r93 oryctolag mq7 homo sapi 3q4 homo sapi	960g3 drosophil 099ie7 rubella 099ie5 rubella 08vall rubella	x25 homo sapie x71 homo sapie x71 homo sapie uh6 drosophila	9p4vl candida bol 9y2gl homo sapien 9p1q6 homo sapien Q8val3 rubella vi Q9jmel mus muscul	zl streptomyc s8 mus muscul 4 homo sapien f2 paralichth m9 mus muscul d5 mus muscul	axnl bo 0955 ru 3y8 cae stpl ar 927 cae
2 Q9J6K9 2 Q86500 Q9TR93 Q9UMQ7	960G Q991 Q991 Q8VA	XCT NX2 NZ7 VCH	9P4V 9Y2G 9P1Q 9P1Q Q8VA Q9JM	Q9L0Z Q9QZS Q9UPR4 Q90WF Q91YM	Q9AX Q903 Q903Y Q9ST Q2092
1129 115 203 203	38 16 16	1040	700		20472
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96 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	94 4 95 94 95 95 95 95 95 95 95 95 95 95 95 95 95	തതതത്	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		92.5 92.5 91.5
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ALIGNMENTS

155 95 27 APSRPALGKTGHLCSTGLDQCALGKMVPTGRYETGGLAPGHSACPCCLFPPRYGKRHKED Euteleostomi; Sus. 84; Length 59; Indels Q9GKL0
Q9GKL0;
Q9GKL0;
Q9GKL0;
Q1-MAR-2001 (TrEMBLrel. 16, Created)
O1-MAR-2002 (TrEMBLrel. 16, Last sequence update)
O1-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Panceatic polypeptide (Fragment).
Sus scrofa (Pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; EutMammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sui 9A199783B9E29FCD CRC64; ·~ œ Score 169; DB 6; Pred. No. 2.6e-08; 3; Mismatches E 5 th 17.5%; Similarity 31.2%; 44; Conservative 6683 MW; 1 59 AA; Amidation. SEQUENCE Query Match Local Best Loc Matches 96 RESULT 1 Q9GKL0 g ò ΙD õ

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Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Siluriformes;
Ictaluridae; Ictalurus.
                                                                                                                                                                                                                     fish
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Mus
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleosto
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
NCBI_TaxID=10090;
                                                                                                                                                                                                                      cat
                                                                                                                                                                                                                                                                                                                                                                                                              PRYGKRI
                                                                                                                                                                                                                                                                                                                                                                                                     --SLLLLSTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRYI
                                                                                                                                                                                                                                                                                                                                                                   95;
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                                                                                                                                                                                                                     channel
                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                               "Neuropeptide Y (NPY) sequence and distribution in channe (Ictalurus punctatus).";
Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
-! SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
HSSP; P01303; 1RON
                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Strausberg R.;
Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; BC010821; AAH10821.1; -.
InterPro; IPR001955; Pancreatic_hormn.
Pfam; PF00159; hormone3; 1.
                                                                                                                                                                                                                                                                                                                                                9AE19EAFBE24C6B5 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Unknown (protein for MGC:19143).
                                                                                                           Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                   DB 13;
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                                                                                                                                                                                                                                                                                                                                                                  Score 115.5; DB
Pred. No. 0.003;
9; Mismatches
                                                                                 95 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98
                                                                                                                                                                                                                                                                                                                     PROSITE; PS00265; PANCREATIC HORMONE 1;
PROSITE; PS50276; PANCREATIC HORMONE 2;
                                                                                                                                                                                                                                                                         IPR001955; Pancreatic hormn
                                                                                                                                                                                                                                                                            Pfam; PF00159; hormone3; 1.
PRINTS; PR00278; PANCHORMONE.
ProDom; PD001267; Pancreatic_hormn; 1
SMART; SM00309; PAH; 1.
                                                                                                                                     catfish)
                                                                                                   Created)
                                                                               PRT;
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                                                                                                                   Last
                  176
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                                                                                                (TrEMBLrel. 15, C
(TrEMBLrel. 15, I
(TrEMBLrel. 19, I
                                                                                                                                     Ictalurus punctatus (Channel
                                                                                                                                                                                                                                                                                                                                               10729 MW;
                                                                                                                                                                                                                                                                                                                                                                the similarity 32.9%; 26; Conservative 1
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                  TLAFSEWGSPHAAVPRELSPL
                                    LLDL-KCSSLHAAAPRELSPM
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                                                                                PRELIMINARY;
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                                                                                                                                                                                          FROM N.A
                                                                                                                                                                                                                                                                                                                                                95 AA;
                                                                                                                                                                        NCBI_TaxID=7998;
                                                                                                                           Neuropeptide Y
                                                                                                                                                                                         SEQUENCE FROM TISSUE=BRAIN;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q91XD0;
01-DEC-2001
01-DEC-2001
01-MAR-2002
                                                                                       Q919D3;
01-OCT-2000
                                                                                                         01-OCT-2000
01-DEC-2001
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Matches
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                                                              RESULT
Q919D3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SRHARRNPAGPSRRCGPPRKSTPTRCCTPCPAPPRCRARPSAPA-PSAGRTCPTAGPSS
                                                                                                                          11;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                subdivision; Myxobacteria; Myxococcaceae; Myxococcus.
                                                                                       Length
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Pancreatic hormn; 1.
PANCREATIC HORMONE 1; UNKNOWN 1.
PANCREATIC HORMONE 2; 1.
11064 MW; 7AF165A1052C3249 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                               update)
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Last sequence update)
Last annotation update)
                                                                                        11;
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                                                                                     Score 113.5; DB 11
Pred. No. 0.0047;
; Mismatches 15;
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01-AUG-1998 (TrEMBLrel. 07, Last sequence upda
01-DEC-2001 (TrEMBLrel. 19, Last annotation up
Hypothetical 57.2 kDa protein.
Myxococcus xanthus.
Bacteria; Proteobacteria; delta subdivision; M
Myxococcales; Cystobacterineae; Myxococcaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 111; DB 2
Pred. No. 0.053;
; Mismatches
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STRAIN=DK 101;
MEDLINE=99047594; PubMed=9829957;
Harris B.Z., Singer M.;
"Identification and characterization
                                                                                                                                                                                                                                                                                                                                                         PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            J. Bacteriol. 180:6412-6414(1998)
EMBL; AF055904; AAC82365.1; -.
Hypothetical protein.
SEQUENCE 542 AA; 57203 MW; DA
                                                                                                                         16;
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Q925V2;
Q925V2;
O1-DEC-2001 (TrEMBLrel. 19, C
01-DEC-2001 (TrEMBLrel. 19, L
01-MAR-2002 (TrEMBLrel. 20, L
Neuropeptide Y (Fragment).
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
                                                                                     th 11.8%;
Similarity 37.3%;
25; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11.5%;
larity 28.6%;
Conservative
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Best Local Similarity
Matches 54; Conser
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update)

update)

97

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Ovis aries (Sheep).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;

Bovidae; Caprinae; Ovis.

NCBI_TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MAAARLCLSLLLLSTCVALLLQPLLGAQGAPLEPVYPGDNATPEQMAQYAADLRRYINML
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Macaca mulatta (Rhesus macaque).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN=ILE DE FRANCE; TISSUE=HYPOTHALAMUS;
Pillon D., Bruneau G.;
"Nucleotide sequence of Ovine preproneuropeptide Y.";
Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
EMBL; AJ417904; CAD10677.1; -.
Signal.
SIGNAL 1 28 POTENTIAL.
CHAIN 29 64 NEUROPEPTIDE Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
Abler L.A., Golos T.G., Terasawa E.;
"Developmental changes in NPY mRNA expression in female
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the EMBL/GenBank/DDBJ databases
TO THE NPY / PPY / PYY FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Created)
Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                    POTENTIAL.
6C2209A361CF8583
                                                                                                                                                                                                                                                                                                                                                                                                                                               11.0%; Score 106; DB 6 larity 40.6%; Pred. No. 0.022; Conservative 13; Mismatches
                                                                                                          Created)
Last sequence up
Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Submitted (JUN-1999) to the EMBL/GenBank/I

-!- SIMILARITY: BELONGS TO THE NPY / PPY /

EMBL; AF162280; AAD43583.1; -.

HSSP; P01303; 1RON.

InterPro; IPR001955; Pancreatic_hormn.

Pfam; PF00159; hormone3; 1.

PRINTS; PR00278; PANCHORMONE.

ProDom; PD001267; Pancreatic_hormn; 1.

SMART; SM00309; PAH; 1.

PROSITE; PS00265; PANCREATIC_HORMONE 1; 1.

PROSITE; PS50276; PANCREATIC_HORMONE 2; 1.
                                                                                                                                                                                                                                                                                                                                                                       28
64
97
10750 MW;
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21,
21,
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12,
19,
                                                                                                                                                 Neuropeptide Y precursor
                                                                             PRELIMINARY;
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(TrEMBLrel.
(TrEMBLrel.
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26; Conserv
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29
68
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01-NOV-1999 (7
01-DEC-2001 (7
Neuropeptide NPY.
                                                                                         OBSPF7;
01-JUN-2002
01-JUN-2002
01-JUN-2002
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Submitted
       63
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Best Local S
Matches 26
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                                                                             Q8SPF7
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QBSPF7
ID Q8
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Q9XSW6
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                                                   MEDLINE=21077529; PubMed=11210195;

MEDLINE=21077529; PubMed=11210195;

Taylor B.A., Wnek C., Schroeder D., Phillips S.J.;

Taylor B.A., Wnek C., Schroeder D., Phillips S.J.;

Taylor B.A., Wnek C., Schroeder D., Phillips S.J.;

"Multiple obesity QTLs identified in an intercross between the NZO (New Zealand obese) and the SM (small) mouse strains.";

Mamm. Genome 12:95-103(2001).

EMBL; AF286198; AAG01330.1; -.

InterPro; IPR001955; Pancreatic_hormn.

Probom; PF00159; hormone3; 1.

Probom; PF001267; Pancreatic_hormn; 1.

PROSITE; PS00265; PANCREATIC_HORMONE_1; UNKNOWN_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Paralichthys olivaceus (Flounder).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Pleuronectiformes;
Pleuronectoidei; Paralichthyidae; Paralichthys.

NCBI_TaxID=8255;
                                                                                                                                                                                                                                                                                                                                          INML
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 Rodentia; Sciurognathi; Muridae; Murinae;
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c, Paralicht
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                                                                                                                                                                                                                                                                               89;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Development of neuropeptide Y related peptides in the organs during the larval stage of Japanese flounder, Paolivaceus.";
Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                  AE6052615A59D96A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6FEED47F24CF6498 CRC64
                                                                                                                                                                                                                                                                              DB 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Last sequence update)
Last annotation update
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 110.5; DB 13;
Pred. No. 0.0089;
10; Mismatches 12;
                                                                                                                                                                                                                                                                             Score 110.5; DB 11
Pred. No. 0.0079;
I; Mismatches 19;
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12;
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InterPro; IPR001955; Pancreatic_hormn.
Pfam; PF00159; hormone3; 1.
ProDom; PD001267; Pancreatic_hormn; 1.
PROSITE; PS00265; PANCREATIC_HORMONE_1; UNKNOWN_PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.
SEQUENCE 99 AA; 11215 MW; 6FEED47F24CF6498 C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Created)
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                                                                                                                                                                                                                                                                                                          11;
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                                                                                                                                                                                                                                                                           th 11.5%;
Similarity 42.2%;
27; Conservative 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11.5%;
39.3%;
                                                                                                                                                                                                                                                9943 MW;
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19,
20,
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                                                                                                                                                                                                                                    89
 Eutheria;
                                                                                                                                                                                                                                                Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                            FROM N.A
              NCBI_TaxID=10090;
                                                                                                                                                                                                                                  83
                                                                                                                                                                                                                                                89
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01-DEC-2001 (7
01-DEC-2001 (7
01-MAR-2002 (7
Neuropeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM TISSUE=BRAIN;
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Q9TS16;
Q9TS16;
Q1-MAY-2000 (TrEMBLrel. 13, Last sequence update)
Q1-MAY-2001 (TrEMBLrel. 13, Last annotation update)
Q1-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Neuropeptide Y (Fragment).
Ovis aries (Sheep).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea; Bovidae; Caprinae; Ovis.
NCBI_Tax#D=9940;
                                                                                                                                                                                                                                                               Paralichthys olivaceus (Flounder).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;

Acanthomorpha; Acanthopterygii; Percomorpha; Pleuronectiformes;

Pleuronectoidei; Paralichthyidae; Paralichthys.

NCBI_TaxID=8255;
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of Japanese flounder, Paralichthys
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olivaceus.";
Submitted (FEB-2001) to the
EMBL; AB055212; BAB62410.1;
InterPro; IPR001955; Pancreatic hormn.

Pfam; PF00159; hormone3; 1.

ProDom; PD001267; Pancreatic hormn; 1.

R PROSITE; PS00265; PANCREATIC HORMONE 1; UNKNOWN 1.

PROSITE; PS50276; PANCREATIC HORMONE 2; 1.
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Last sequence upd
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                                                      Mismatches
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                                 Score 105;
Pred. No. (
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                                                    13;
             10840 MW;
                                ilarity 40.6%;
Conservative 1
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of neur
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Q90WF3;
01-DEC-2001
01-DEC-2001
01-MAR-2002
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"Development
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   Amidation.
SEQUENCE
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caecilian amphibian.";

Caecilian amphibian.";

Epetides 22:325-334(2001).

C. -! FUNCTION: NPY IS IMPLICATED IN THE CONTROL OF FEEDING AND IN

SECRETION OF GONADOTROPHIN-RELEASE HORMONE (BY SIMILARITY).

C. -! SUBCELLULAR LOCATION: SECRETED (BY SIMILARITY).

C. -! TISSUE SPECIFICITY: EXPRESSED THROUGHOUT THE BRAIN WITH HIGHEST LEVELS OF EXPRESSION IN MEDIAL PALLIUM, BASAL FOREBRAIN, PREOPTIC AREA, MIDBRAIN TEGMENTUM AND TRIGEMINAL NUCLEUS.

C. -! MASS SPECTROMETRY: MW-4246; MW_ERR=4; METHOD=MALDI.

C. -! AMASS SPECTROMETRY: MW-4246; MW_ERR=4; METHOD=MALDI.

R EMBL; AF167559; AAD48033.1; -.

R HSSP; PO1303; IRON.

R HSSP; PO1303; IRON.

R HSSP; PO1303; IRON.
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               Keisler D.H.;
/DDBJ databases.
/ PYY FAMILY.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Amphibia; Gymnophiona; Caeciliidae; Typhlonectes.
NCBI_TaxID=8456;
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(TrEMBLrel. 13, Last sequence update),
(TrEMBLrel. 20, Last annotation update); Y precursor (NPY).
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Ebersole T.J., Conlon J.M., Goetz F.W., Boyd S.K.;
"Characterization and distribution of neuropeptide
                                                                                                                                                                                                                                                                                                                                                                                                     DB 6;
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           Simmons J.M., Daniel J.A., Matteri R.L., Keis Submitted (SEP-1998) to the EMBL/GenBank/DDBJ-!- SIMILARITY: BELONGS TO THE NPY / PPY / PY EMBL; AF095782; AAC69886.1; -. HSSP; P01303; 1RON.
InterPro; IPR001955; Pancreatic_hormn.
Pfam; PF00159; hormone3; 1.
PRINTS; PR00278; PANCHORMONE.
ProDom; PD001267; Pancreatic_hormn; 1.
SMART; SM00309; PAH; 1.
PROSITE; PS50276; PANCREATIC_HORMONE_1; 1.
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PROSITE; PS00265; PANCREATIC HORMONE 1; PROSITE; PS50276; PANCREATIC HORMONE 2; Neuropeptide; Cleavage on pair of basic neuropeptide; Cleavage on pair of basic
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39.1%;
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STRAIN=A3(2);
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                                                                   STRAIN=A3 (2);
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Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.
NCBI_TaxID=1902;
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Bacteria; Firmicutes; Bacillus/Clostridium group; Bacillales;
Bacillaceae; Bacillus.
NCBI_TaxID=1423;
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         BY SIMILARITY.
AMIDATION (G-65 PROVIDE AMIDE (BY SIMILARITY).
                                                           97
                                                                                                                                                                                                                                                                                                                               protein located
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Takamatsu H., Hiraoka T., Kodama T., Koide H., Kozuka S., Tochikubo K., Watabe K.;

"Cloning of a novel gene yrbB, encoding a protein located integument of Bacillus subtilis.";

FEMS Microbiol. Lett. 166:361-367(1998).

EMBL; D50551; BAA24943.1; -.

InterPro; IPR002482; LysM.

Pfam; PF01476; LysM; 1.

SMART; SM00257; LysM; 1.

SEQUENCE 387 AA; 43213 MW; F050ABF6F185DBFC CRC64;
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                                                          Score 104; DB 1:
Pred. No. 0.034;
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Pred. No. 0.21;
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01-MAY-2000 (TrEMBLrel. 13, Creacc.,
01-MAY-2000 (TrEMBLrel. 13, Last sequence up
01-JUN-2002 (TrEMBLrel. 21, Last annotation
Putative multi-domain regulatory protein.
SCO2259 OR SCC75A.05C.
SCO2259 OR SCC75A.05C.
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Mismatches
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larity 41.7%;
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Best Local Similarity
Matches 40; Conser
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01-JUN-1998
01-DEC-2001
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052861;
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PAPGTAPGSSTAPPHDTASAADTAPAPGPTSAPGTAPAAGTAAPAPGTAGP--APGTSYA 376
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Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,
Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neil S.,
Rabbinowitsch E., Rajandream M.A., Rutherford K., Rutter S.,
Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streptomyces
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                                                                                                                                                                                                                                                                                                            physical
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                                                                                                                        M.A.;
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Seeger K.J., Harris D.;
Submitted (NOV-1999) to the EMBL/GenBank/DDBJ databases
                                                                                                                    J., Barrell B.G., Rajandream M.A
the EMBL/GenBank/DDBJ databases
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Q9NYQ6; O95722; Q9YS26;
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2000 (TrEMBLrel. 15, Last annotation update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
                                                                                                                                                                                                                                                                                                              d genetic a chromosome.
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Pred. No. 0.93;
6; Mismatches
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                                                                                                                                                                                                                                    MEDLINE=97000351; PubMed=8843436
Redenbach M., Kieser H.M., Denapa
Kinashi H., Hopwood D.A.;
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PRINTS; PR00364; DISEASERSIST.
PRINTS; PR01574; TUBBYPROTEIN.
ProDom; PD000329; Trans reg C; 1
SROIENCE 1334 AA; 138787 MW;
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FMI2 OR DJ1163J1.1 OR DJ439F8.2
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InterPro; IPR000767; Disease
InterPro; IPR001867; Trans_re
Pfam; PF03704; BAD; 1.
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ilarity 30.8%;
Conservative
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Nature 417:141-147(2002).
EMBL; AL133220; CAB61705.1;
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STRAIN=A3(2) / M145;
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          cadherin-
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          neural
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;; EGF_2; 2.
;; G PROTEIN RECEP_F2_3; 1.
1; G PROTEIN RECEP_F2_4; 1.
1; G PROTEIN RECEP_F2_4; 1.
8; LAMININ TYPE EGF; UNKNOWN_1..
; Cell adhesion; EGF-like domain; Gly
; Cell adhesion; EGF-like domain; Gly
          human
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         family
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Laminin EGF.
Laminin G.
          large
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Cadherin.
EGF-like.
GPCR_secretin
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                                                     PubMed=10716726
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HYDROXYL;
HYDROXYL;
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protocadherin genes
Acad. Sci. U.S.A.
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CADHERIN 1;
CADHERIN 2;
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PRINTS; PR00011; EGFLAMININ.
PRINTS; PR00249; GPCRSECRETIN
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                                                                                                                                                                       SIMILARITY: CONTAINS 9 CA
3L; AF231024; AAF61930.1; -
3L; AL021392; CAB50707.1; -
3L; AL031588; CAB38413.1; -
3P; P00749; 1URK.
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Similarity 29.3%;
49; Conservative
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GPS; 1.
           0 =
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; PF00028; cadherin; 8; PF00008; EGF; 6.
; PF01825; GPS; 1.
; PF02793; HRM; 1.
; PF00053; laminin EG; ; PF00054; laminin EG;
                                                                                                                                                                                                                                                                                                                                                                                            CA; 9.
EGF Lam;
Q., Maniatis T.;
striking organization
se cell adhesion genes.
1 97:779-790(1999).
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                                                                                                                                                                                                                          IPRO00152; F
IPRO02126; C
IPRO00561; E
IPRO00832; C
IPRO01879; F
IPRO0179; I
IPRO0179; I
                                                               Wu Q., Maniatis T.;
"Large exons encoding
                                                                                                                                               1538-3014
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                                                                                                                                                                                                                                                                                                                                                                                           CA;
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                                        SEQUENCE FROM N.A. MEDLINE=20202599;
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SM00008;
SM00282;
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Lloyd D.;
Submitted
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InterPro;
InterPro;
InterPro;
Pfam; PF00
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SEQUENCE
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Williams
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Best Local
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SMART;
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Pfam;
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EMBL;
EMBL;
HSSP;
HSSP;
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Matches
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Cell
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Yingwen L., Takeshi Y.;

A Yingwen L., Takeshi Y.;

"Daily rhythmic gene expression of neuropeptide Y in discrete brain of common carp, Cyprinus carpio, under the condition of self feeding.";

Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.

C -1- SIMILARITY: BELONGS TO THE NPY / PYY FAMILY.

R HSSP; P01303; 1RON.

R HSSP; P01303; 1RON.

R HSSP; P00155; Pancreatic_hormn.

R PRINTS; PR001257; Pancreatic_hormn.

R PRINTS; PR001267; PAH; 1.

R PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.

R PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.
                                                                                                                                                                                                                                                                                        of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                 01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Neuropeptide Y.
Cyprinus carpio (Common carp).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae; Cyprinus.
NCBI TaxID=7962;
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               161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CRC64;
|| | | || || GGCAAAQHSALAAPTTLPACRCPPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10.5%; Score 101; DB 13; 44.9%; Pred. No. 0.062; tive 10; Mismatches 15;
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Best Local Similarity 44.9
121 CGTGARLCGALCFPVP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Search completed: March
Job time : 34 secs
                                                                                                                                                                                                                                                  FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        96 AA;
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TISSUE=BRAIN;
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version 5.1.3
- 2003 Compugen Ltd
GenCore
(c) 1993
           Copyright
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model **≥** using protein search, OM protein

1, 2003, 09:11:12 March Run on:

; Search time 17 Seconds (without alignments) 1006.584 Million cell u

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178

US-09-965-528-16 964

Į, ... FSEWGSPHAAVPRELSPL 1 MAAARLCLSLLLLSTCVALL.... score: Title: Perfect so Sequence:

Scoring table:

Gapext 0.5 BLOSUM62 Gapop 10.0 , 283224 seqs, 96134422 residues rched:

283224 al number of hits satisfying chosen parameters

length: 0 length: 2000000000 Minimum DB seq Maximum DB seq

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

R 73: * pir1: * pir2: * pir3: * 4 0 E 4

re a printed, Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being prand is derived by analysis of the total score distribution.

SUMMARIES

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150808	T50568	S26954	B41979	YYPG	A31358	A60416	MNWVRN	A55914	H69971	CGCH1S	A43291	PCGXA	PCDFY	A49743	S38480
7	~	~	7	Н	N	~	Н	7	~	Н	Н	Н	Н	7	~
104	1334		96		36		2205	97		1042			36	36	2115
•	•	•	•	•	•	•	10.2	•		•	•	•	•	•	•
	102	0	100	66	66	66	98.5	98		7.			96		
							37								

ALIGNMENTS

 ULT 1 U creatic hormone precursor [validated] - human lternate names: pancreatic polypeptide precur
 cains: pancreatic he sies: Homo sapiens (e: 17-Dec-1982 #sequession: A92498; A910
ny, M.R.; Jamieson, E.; Goodman, R.H. 013-13017, 1985
A; Title: Exons of the human pancreatic polypeptide gene, define functional domains of the A; Reference number: A92498; MUID:86033734; PMID:2997153 A; Accession: A92498
 A; Molecule type: DNA A; Residues: 1-95 < LEI1>
 A;Cross-references: GB:M11726; NID:g190269; PIDN:AAA60156.1; PID:g190270 R;Boel, E.; Schwartz, T.W.; Norris, K.E.; Fiil, N.P.
A; Title: A cDNA encoding a small common precursor for human pancreatic polypeptide and passerence number: A91002: MIID: 84207951: PMID: 6373251
•
:X00491; nn, H.T.;
702-14705, 1984 a precursor to human
2587; MUID:8
> equence, including the amino end of the mature protein.
o, D.L.; Yamada, T.; Meisler, M.H.; Minth, C.D.; Dixon, J.E.
g pancreat
;CT/04T00:GT0W ;C4CC
A;Status: preliminary; translated from GB/EMBL/DDBJ
7-95 <tak1></tak1>
A;Cross-references: GB:M15788; NID:g190301; PIDN:AAA60161.1; PID:g190302 R;Takeuchi, T.; Yamada. T.
 536-1539
er isolation of
Accession: A94026 Molecule type: mRNA
esidues: 1-85,'I',87-95 <tak2></tak2>
;scnwartz, T.w.; Hansen, H.F.; Hakanson roc. Natl. Acad. Sci. U.S.A. 81, 708-71
;Title: Human pancreatic icosar; ;Reference number: A94018; MUII

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conservation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pancreatic hormone precursor - mouse
N;Alternate names: pancreatic polypeptide precursor
N;Contains: pancreatic polypeptide precursor
N;Contains: pancreatic hormone; pancreatic icosapeptide
C;Species: Mus musculus (house mouse)
C;Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change
C;Accession: B28261
R;Yonekura, H.; Nata, K.; Watanabe, T.; Kurashina, Y.; Yamamoto
J. Biol. Chem. 263, 2990-2997, 1988
A;Title: Mosaic evolution of prepropancreatic polypeptide. Stru
A;Reference number: A92708; MUID:88139354; PMID:3343236
A;Accession: B28261
A;Molecule type: DNA
A;Residues: 1-100 < YYON >
A;Cross-references: GB:M18208; GB:J03543; NID:g200463; PIDN:AAA
C;Superfamily: pancreatic hormone
C;Keywords: amidated carboxyl end; hormone; pancreas
F;1-29/Domain: signal sequence #status predicted <SIG>F;30-65/Product: pancreatic hormone #status predicted <PCH>F;71-100/Product: pancreatic icosapeptide #status predicted <PCF
F;71-100/Product: pancreatic icosapeptide #status predicted in matur
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C;Keywords: amidated carboxyl end; hormone; pancreas F;1-20/Domain: signal sequence #status predicted <SIG>F;30-65/Product: pancreatic hormone #status experimental <PCH>F;69-88/Product: pancreatic icosapeptide #status experimental F;69-88/Modified site: amidated carboxyl end (Tyr) (amide in matu
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Pred. No. 9.7e-14;
; Mismatches 25;
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15;
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                                                                                                                                     Score 305.5; DB Pred. No. 2.8e-17
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ilarity 40.5%;
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Similarity 61.1%;
58; Conservative
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      A; Molecule type: protein
A; Molecule type: protein
A; Residues: 69-88 < SCH>
R; Gingerich, R.L.; Akpan, J.O.; Leith, K.M.; Gilbert, W.R.
R; Gingerich, R.L.; Akpan, J.O.; Leith, K.M.; Gilbert, W.R.
R; Gingerich, R.L.; A60068; MUID: 91352354; PMID:1882090
A; Recession: A60068; MUID: 91352354; PMID:1882090
A; Recidues: 32-47 < GIN>
C; Genetics:
A; Genetics
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N; Alternate names: pancreatic polypeptide precursor
N; Contains: pancreatic hormone; pancreatic icosapeptide
C; Species: Canis lupus familiaris (dog)
C; Date: 25-Feb-1985 #sequence revision 12-Apr-1996 #text_change 18-0.
C; Accession: A40904; A94465; A93270; A01567
E; Toothman, P.; Paquette, T.L.
Endocrinol. 1, 413-419, 1987
Litle: Canine pancreatic polypeptide complementary deoxyribonucle
A; Reference number: A40904; MUID: 90331935; PMID: 3079195
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Keywords: amidated carboxyl end; hormone; pancreas
1-29/Domain: signal sequence #status predicted <SIG>
30-65/Product: pancreatic hormone #status predicted <PCH>
69-88/Product: pancreatic icosapeptide #status experimental <PC
89-95/Product: pancreatic heptapeptide #status predicted <PC7>
5/Modified site: amidated carboxyl end (Tyr) (amide in mature
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A,Accession: A28261
A,Molecule type: DNA
A,Residues: 1-98 «YON»
A,Cross-references: GB:M18207; GB:J03543; NID:g206325; PIDN:AA41922.
R;KOpin, A.S.; Toder, A.E.; Leiter, A.B.
Arch. Biochem. Biophys. 267, 742-748, 1988
A,Title: Different splice site utilization generates diversity betwee A,Reference number: S06472; MUD:89104395; PMID:3214179
A,Status: not compared with conceptual translation
A,Molecule type: DNA
A,Residues: 1-98 «KOP»
A,Cross-references: GB:M27450; NID:g341701; PIDN:AAA99236.1; PID:g602
R;Yamamotoch, H.; Mata, K.; Okamotoch, H.
J. Biol. Chem. 261, 615-6159, 1986
A,Title: Mosaic evolution of prepropancreatic polypeptide.
A,Reference number: A01571; MUD:86196026; PMID:3009446
A,Residues: 1-98 «YAM»
A,Residues: 1-98 (SB:M13588; NID:g206327; PIDN:AA41923.1; PID:g206
C,Genetics:
C,Superfamily: pancreatic hormone #status predicted «PCI»
F;30-65/Product: pancreatic icosapeptide #status predicted «PCI»
F;65/Modified site: amidated carboxyl end (Tyr) (amide in mature form
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R; Chance, R.E.; Johnson, M.G.; Hoffmann, J.A.; Jones, W.E.; Koff unpublished results, cited by Chance, R.E., Moon, N.E., and John San Francisco, and London, 1979
A; Reference number: A94465
A; Accession: B94465
A; Residues: 1-36 cCHA>
R; Schwartz, T.W.; Hansen, H.F.
FEBS Lett. 168, 293-298, 1984
A; Title: Isolation of ovine pancreatic icosapeptide: a peptide p A; Reference number: A91323; MUID:84208777; PMID:6723953
A; Molecule type: protein
A; Residues: 40-59 cSCH>
C; Comment: We have added, by homology with the human precursor s C; Superfamily: pancreatic hormone
C; Superfamily: pancreatic hormone
C; Keywords: amidated carboxyl end; hormone; pancreas
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Pred. No. 7.1e-12;
6; Mismatches 27;
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orm
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N;Alternate names: pancreatic polypeptide precursor
N;Contains: pancreatic polypeptide precursor
N;Contains: pancreatic hormone; pancreatic icosapeptide
C;Species: Cavia porcellus (guinea pig)
C;Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 16-Jul
C;Accession: A28256
R;Blackstone, C.D.; Seino, S.; Takeuchi, T.; Yamada, T.; Steiner, D.F.
J. Biol. Chem. 263, 2911-2916, 1988
A;Title: Novel organization and processing of the guinea pig pancreati
A;Reference number: A28256; MUID:88139344; PMID:2830269
A;Reference number: A28256; MUID:88139344; PMID:2830269
A;Residues: 1-126 <BLA>
A;Residues: 1-126 <BLA>
A;Cross-references: GB:M29543; NID:g191292; PIDN:AAA37051.1; PID:g3053
C;Superfamily: pancreatic hormone
C;Keywords: amidated carboxyl end; hormone; pancreas
F;1-26/Domain: signal sequence #status predicted <PCH>
F;27-62/Product: pancreatic hormone #status predicted <PCH>
F;67-126/Product: pancreatic icosapeptide #status predicted <PCH>
F;67-126/Product: pancreatic icosapeptide #status predicted <PCH
C;Modified site: amidated carboxyl end (Tyr) (amide in mature form
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 A;Residues: 1-66 <NIE>
C;Comment: We have added, by homology with the human precursor se C;Comment: We have added, by homology with the human precursor se C;Superfamily: pancreatic hormone
C;Keywords: amidated carboxyl end; hormone; pancreas
E;1-36/Product: pancreatic hormone #status experimental <PCF;40-66/Product: pancreatic icosapeptide #status experimental <PCF;36/Modified site: amidated carboxyl end (Tyr) (amide in mature
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N; Contains: pancreatic hormone; pancreatic icosapeptide
C; Species: Rattus norvegicus (Norway rat)
C; Date: 30-Jun-1987 #sequence revision 30-Jun-1987 #text_change
C; Accession: A28261; S06472; A01571
R; Yonekura, H.; Nata, K.; Watanabe, T.; Kurashina, Y.; Yamamoto, J. Biol. Chem. 263, 2990-2997, 1988
A; Title: Mosaic evolution of prepropancreatic polypeptide. Struc A; Title: nosaic evolution of prepropancreatic polypeptide. Struc A; Reference number: A92708; MUID:88139354; PMID:3343236
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Koffenberger Ji Johnson, M.G.,

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N;Alternate names: pancreatic polypeptide
C;Species: Equus caballus przewalskii (Przewalski's horse)
C;Date: 12-Mar-1994 #sequence_revision 07-Oct-1994 #text_chan
C;Accession: D61132
R;Henry, J.S.; Lance, V.A.; Conlon, J.M.
Gen. Comp. Endocrinol. 84, 440-446, 1991
A;Title: Primary structure of pancreatic polypeptide from fou A;Reference number: A61132; MUID:92225314; PMID:1808025
A;Accession: D61132
A;Molecule type: protein
A;Residues: 1-36 cHEN>
C;Superfamily: pancreatic hormone
C;Keywords: amidated carboxyl end; hormone; pancreas
F;1-36/Product: pancreatic hormone #status experimental <PCH>F;36/Modified site: amidated carboxyl end (Tyr) #status predi
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N;Alternate names: pancreatic polypeptide
C;Species: Chinchilla brevicaudata, Chinchilla lanigera brevi
C;Date: 03-Feb-1993 #sequence_revision 03-Feb-1993 #text_chan
C;Accession: B60413
R;Eng, J.; Kleinman, W.A.; Chu, L.S.
Peptides 11, 683-685, 1990
A;Title: Purification of peptide hormones from chinchilla pan
A;Reference number: A60413; MUID: 91045327; PMID: 2235678
A;Accession: B60413
A;Status: preliminary
                                                                                                             Palisa
pancreatic hormone - mountain zebra
N;Alternate names: pancreatic polypeptide
C;Species: Equus zebra (mountain zebra)
C;Date: 10-Mar-1994 #sequence_revision 07-Oct-1994 #text_chan
C;Accession: A61132
R;Henry, J.S.; Lance, V.A.; Conlon, J.M.
Gen. Comp. Endocrinol. 84, 440-446, 1991
A;Title: Primary structure of pancreatic polypeptide from fou
A;Reference number: A61132; MUID:92225314; PMID:1808025
A;Accession: A61132
A;Molecule type: protein
A;Residues: 1-36 <HEN>
C;Superfamily: pancreatic hormone
C;Keywords: amidated carboxyl end; hormone; pancreas
C;Keywords: amidated carboxyl end; hormone; pancreas
F;1-36/Product: pancreatic hormone #status experimental <PCH>
F;36/Modified site: amidated carboxyl end (Tyr) #status exper
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Pred. No. 6.9e-08;
2; Mismatches 0
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NyAlternate names: pancreatic polypeptide
C;Species: Tapirus pinchaque (mountain tapir)
C;Date: 12-Mar-1994 #sequence_revision 07-Oct-1994 #text_change 26-Feb-1999
C;Accession: C61132
R;Henry, J.S.; Lance, V.A.; Conlon, J.M.
Gen. Comp. Endocrinol. 84, 440-446, 1991
A;Title: Primary structure of pancreatic polypeptide from four species of FA;Reference number: A61132; MUID:92225314; PMID:1808025
A;Accession: C61132
A;Molecule type: protein
A;Residues: 1-36 <HEN>
C;Superfamily: pancreatic hormone
C;Keywords: amidated carboxyl end; hormone; pancreas
F;1-36/Product: pancreatic hormone #status experimental <PCH>
F;36/Modified site: amidated carboxyl end (Tyr) #status predicted
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N; Alternate names: pancreatic polypeptide
C; Species: Macaca mulatta (rhesus macaque)
C; Date: 07-May-1993 #sequence_revision 07-May-1993 #text_char
C; Accession: C60071
R; Yu, J.; Xin, Y.; Eng, J.; Yalow, R.S.
Regul. Pept. 32, 39-45, 1991
A; Title: Rhesus monkey gastroenteropancreatic hormones: relat
A; Reference number: A60071; MUID:91164506; PMID:2003150
A; Accession: C60071
A; Status: protein sequence not shown
A; Molecule type: protein
A; Residues: 1-36 < YUA>
A; Note: the sequence is identical with the human sequence
C; Superfamily: pancreatic hormone
C; Superfamily: pancreatic hormone
C; Keywords: amidated carboxyl end: hormone
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Pred. No. 7.9e-10;
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Mismatches 0;
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Pred. No. 4.8e-08;
1; Mismatches (
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    F;40-59/Product: pancreatic icosapeptide #status
F;36/Modified site: amidated carboxyl end (Tyr)
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Matches 34; Conservative
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Chance, R.E.; Johnson, M.G.; Hoffmann, J.A.; Lin, T.M.
in Proinsulin, Insulin, C-peptide, Baba, S., Kaneko, T., and Yanail A; Reference number: A01568
A; Reference number: A01568
A; Molecule type: protein
A; Residues: 1-36 < CHA>
C; Superfamily: pancreatic hormone
C; Keywords: amidated carboxyl end; hormone; pancreas
C; Keywords: amidated carboxyl end; hormone; pancreas
F; 1-36/Product: pancreatic hormone #status experimental
F; 36/Modified site: amidated carboxyl end (Tyr) #status experimental
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N;Alternate names: pancreatic polypeptide
C;Species: Ceratotherium simum (white rhinoceros, square-lipped
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C; Species: Bos primigenius taurus (cattle)
C; Date: 17-Dec-1982 #sequence_revision 17-Dec-1982 #text_chan
Accession: A01570
hance, R.E.; Johnson, M.G.; Hoffmann, J.A.; Jones, W.E.;
published results, cited by Chance, R.E., Moon, N.E., and San Francisco, and London, 1979
A; Reference number: A94465
A; Accession: A01570
A; Molecule type: protein
A; Residues: 1-36 < CHA>
C; Superfamily: pancreatic hormone
C; Superfamily: pancreatic hormone
C; Keywords: amidated carboxyl end; hormone; pancreas
F; 1-36/Product: pancreatic hormone #status experimental < F; 36/Modified site: amidated carboxyl end (Tyr) #status expe
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N;Alternate names: pancreatic polypeptide
C;Species: Sus scrofa domestica (domestic pig)
Date: 17-Dec-1982 #sequence_revision 17-Dec-1982 #text_
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Pred. No. 1.4e-07;
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Pred. No. 6.9e-08
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A;Molecule type: protein
A;Residues: 1-36 <ENG>
C;Superfamily: pancreatic hormone
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C;Date: 10-Mar-1994 #sequence_revision 07-Oct-1994 #text_change 26-Feb-1999
C;Accession: B61132
R;Henry, J.S.; Lance, V.A.; Conlon, J.M.
Gen. Comp. Endocrinol. 84, 440-446, 1991
A;Title: Primary structure of pancreatic polypeptide from four species of perissodactyl A;Reference number: A61132; MUID:92225314; PMID:1808025
A;Accession: B61132
A;Molecule type: protein
A;Reference number: A61132; MUID:92225314; PMID:1808025
A;Accession: B61132
A;Molecule type: protein
A;Reference number: A61132; MUID:92225314; PMID:1808025
A;Accession: B61132
A;Molecule type: protein
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A;Accession: B61132
A;Molecule type: protein
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GenCore version 5.1.3 Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

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615.232 Million cell updates/sec US-09-965-528-16 964 1 MAAARLCLSLLLLSTCVALL......FSEWGSPHAAVPRELSPLDL 178

BLOSUM62 Gapop 10.0 , Gapext 0.5 Title: Perfect score: Sequence: Scoring table:

rched:

112892 segs, 41476328 residues

112892 al number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

SwissProt_40:* Database:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

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Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovo
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PROSITE; PS50276; PANCREATIC HORMONE 2; 1.
Hormone; Cleavage on pair of basic residues; Pancreas;
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6 (Rel. 34, Last sequence update)
1 (Rel. 40, Last annotation update)
hormone precursor (Pancreatic polypeptide)
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                                                                                                                                                                                                                                                                                                                 PANCREATIC HORMONE.
PANCREATIC ICOSAPEPTIDE
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of another member
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Mismatches
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MEDLINE=95132646; PubMed=7831336;
Herzog H., Hort Y., Schneider R.,
"Seminalplasmin: recent evolution
neuropeptide Y gene family.";
Proc. Natl. Acad. Sci. U.S.A. 92:5
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                                                                                                      EMBL; X00491; CAA25161.1; -.
EMBL; M11726; AAA60156.1; -.
EMBL; M15788; AAA60161.1; -.
PIR; A01566; PCHU.
PIR; A22587; A22587.
HSSP; P01302; 1BBA.
Genew; HGNC:9327; PPY.
MIM; 167780; -.
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Pfam; PF00159; hormone3; 1.
PRINTS; PR00278; PANCHORMONE.
SMART; SM00309; PAH; 1.
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NCBI_TaxID=9913;
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Metazoa;
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C-TERMINAL PEPTIDE 1 (POTENTIAL).
C-TERMINAL PEPTIDE 2 (POTENTIAL).
AMIDATION (G-66 PROVIDE AMIDE GROUP)
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                                                                                                                                                                                                        STRUCTURE BY NMR.

MEDLINE=92135211; PubMed=1734969;

Li X., Sutcliffe M.J., Schwartz T.W., Dodson C.M.;

"Sequence-specific 1H NMR assignments and solution structure obvine pancreatic polypeptide.";

Biochemistry 31:1245-1253(1992).

-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.

-!- SUBCELLULAR LOCATION: Secreted.

-!- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
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PRINTS; PR00278; PANCHORMONE.

SMART; SM00309; PAH; 1.

PROSITE; PS00265; PANCREATIC HORMONE 1; 1.

PROSITE; PS50276; PANCREATIC HORMONE 2; 1.

Hormone; Cleavage on pair of basic residues; Pancreas; Signal Amidation; 3D-structure.
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Chance R.E., Johnson M.G., Hoffmann J.A., Jones W.E., Koffenberger J.E. Jr.;
Unpublished results, cited by:
Chance R.E., Moon N.E., Johnson M.G.;
(In) Jaffe B.M., Behrman H.R. (eds.);
Methods of hormone radioimmunoassay (2nd ed.), pp.657-672, Academic Press, New York and London (1979).
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7 (Rel. 16, Last sequence update)
8 (Rel. 40, Last annotation update)
9 hormone precursor (Pancreatic polypeptide)
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No. 2.7e-20;
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Pred. No. 2.7e
3; Mismatches
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PDB; 1BBA; 31-OCT-93.
InterPro; IPR001955; Pancreatic hormn.
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PIR; A01570; PCBO.
PDB; 1BBA; 31-OCT-93.
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Pancreatic h
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          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
NCBI TaxID=9615;
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Schwartz T.W.;
Unpublished results, cited by:
Nielsen H.V., Gether U., Schwartz T.W.;
Biochem. J. 240:69-74(1986).
-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.
-!- FUNCTION: THE PHYSIOLOGICAL ROLE FOR THE ICOSAPEPTIDE HAS NOT YET BEEN ELUCIDATED.
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                                                                                                         Toothman P., Paquette T.L., "Canine pancreatic polypeptide complementary deoxyribonuclei sequence: pancreatic polypeptide and insulin messenger ribon acid distribution in the lobes of the pancreas."; Mol. Endocrinol. 1:413-419(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a between the Swiss Institute of Bioinformatics and the EMI the European Bioinformatics Institute. There are no restriuse by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entities requires a license agreement (See http://www.isb-sior send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                      Schwartz T.W., Tager H.S.; "Isolation and biogenesis of a new peptide from pancreatic Nature 294:589-591(1981).
                                                                                                                                                                                                                                                                        Moon N.E., Johnson M.G.,
.M., Behrman H.R. (eds.);

brinone radioimmunoassay (2nd ed.), pp.657-672,
ss, New York and London (1979).
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PRINTS; PR00278; PANCHORMONE.
SMART; SM00309; PAH; 1.
PROSITE; PS00265; PANCREATIC HORMONE 1; 1.
PROSITE; PS50276; PANCREATIC HORMONE 2; 1.
Hormone; Cleavage on pair of basic residues; Pancreas;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUBCELLULAR LOCATION: Secreted.
SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AMIDATION (G-66 PROVIDE B88D6D1F0281F413 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PANCREATIC HORMONE.
PANCREATIC ICOSAPEPTIDE
                                                                                                                                                                                                                            Jones W.E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 305.5; DB 1, nred, No. 4.3e-17;
                                                                                                                                                                                                                        Chance R.E., Johnson M.G., Hoffmann J.A.,
Koffenberger J.E. Jr.,
Unpublished results, cited by:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR001955; Pancreatic_hormn.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE OF 89-93.
MEDLINE=87156600; PubMed=3827854;
                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=82080694; PubMed=7031480;
                                                                                               MEDLINE=90331935; PubMed=3079195;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; M35596; AAA30886.1; -. PIR; A01567; PCDG. PIR; A40904; A40904. HSSP; P01302; 1BBA.
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70; Conser
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Canis familiaris
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PEPTIDE
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Best Loc
Matches
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                                                                                 120
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                                        9
                                                                                                                         62
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A REGULATOR OF PANCREATIC AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
NCBI_TaxID=10090;
                                                                               TRPRCVPQLGREIPAPGTLGPLHIPGHTLSPAPAPAPAPALGKTGHLCSTGLDQCALGK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PANCREATIC HORMONE.
C-TERMINAL PEPTIDE.
AMIDATION (G-66 PROVIDE AMIDE GROUP)
A0D0004FB7DFB9D9 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Structural
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"Mosaic evolution of prepropancreatic polypeptide. II. Structiconservation and divergence in pancreatic polypeptide gene.";
J. Biol. Chem. 263:2990-2997(1988).
-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 100;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
MEDLINE=88139354; PubMed=3343236;
Yonekura H., Nata K., Watanabe T., Kurashina Y., Yamamoto H.,
                                                                                                                                                                   121 MVPTGRYETGGLAPGHSACPCCLFPPRYGKRHKEDTLAFSEWGSPHAAVPREL
                                                                                                                                                                                             - PRYGKRDRGEMRDILEWGSPHAAAPREL
                                                                                                                                                                                                                                                                                                                                                       01-JUL-1989 (Rel. 11, Created)
01-JUL-1989 (Rel. 11, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Pancreatic hormone precursor (Pancreatic polypeptide) (PP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIONS.

GASTROINTESTINAL FUNCTIONS.

SUBCELLULAR LOCATION: Secreted.

SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1;
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Pred. No. 1.2e-13;
5; Mismatches 25;
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61.1%;
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HSSP; P01302; 1BBA.
MGD; MGI:97753; Ppy.
InterPro; IPR001955; Panc
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58; Conser
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69
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P10601;
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Pfam; PF00159; hormone3; 1.
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01-JAN-1990 (Rel. 13, Last
16-OCT-2001 (Rel. 40, Last
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62
126
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27
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                                                                                                               SEQUENCE
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P06303;
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PRINTS;
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Best Local
Matches 5
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PIR; A
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  INTL
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                                                                                                                                                                                                                   :omi;
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                                                                                                                                                                                                                                                                                           T.W.; its biosynthetic intermediate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  residues
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                                                                                                                                                                                                                                                                           MEDLINE=87156600; PubMed=3827854; Nielsen H.V., Gether U., Schwartz T.W.; "Cat pancreatic elcosapeptide and its blosynthetic intermediat Conservation of a monobasic processing site."; Biochem. J. 240:69-74(1986).
                                                                                                                                                                                                                                                                                                                                                      OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.
FUNCTION: THE PHYSIOLOGICAL ROLE FOR THE ICOSAPEPTIDE HAS
                                                                                                                                                                                                                    eost
 MAVAYCCLSLFLVSTWVALLLQPLQGTWGAPLEPMYPGDYATPEQMAQYETQLRR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AMIDE
                                                                                                                                                                                                                                                                                                                                                                                FUNCTION: THE PHYSIOLOGICAL ROLE FOR THE ICOSAPEPTIDE NOT YET BEEN ELUCIDATED. SUBCELLULAR LOCATION: Secreted. MISCELLANEOUS: GLY-LYS-ARG AT POSITIONS 37 TO 39 WERE HOMOLOGY WITH OTHER PANCREATIC HORMONE TYPE PRECURSOR SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
                                                                                                                                                                                                                  Eutele
Felis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length
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01-JAN-1988 (Rel. 06, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Pancreatic hormone precursor (Pancreatic polypeptide)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PANCREATIC HORMONE.
PANCREATIC ICOSAPEPTIDE.
AMIDATION (G-37 PROVIDE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2D3A94BD9063A83D CRC64;
                                                                                                                                                                                               Felis silvestris catus (Cat).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Carnivora; Fissipedia; Felidae;
NCBI_TaxID=9685;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 1;
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ed. No. 5.6e-13;
Mismatches 6
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                          TRPRCVPQLGREIPAPGTLGPLHIPGHTLSPAPAP
                                               TRPR----YGKRAEBENTGG---LPGVQLSPCTSP
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AMIDATION (
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; P01302; 1BBA.
rPro; IPR001955; Pancreatic hormn.
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larity 36.9%;
Conservative
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                                                                                                                STANDARD;
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59
36
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36
66
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Pfam; PF00159
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P13083;
01-JAN-1990
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                                                                                                               FELCA
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MOD RES
NON TER
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ght. It is produced through a collaboration Bioinformatics and the EMBL outstation -
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                                                                                                                                                                                                                                                                              MEDLINE=88139344; PubMed=2830269;
MEDLINE=88139344; PubMed=2830269;
Blackstone C.D., Seino S., Takeuchi T., Yamada T., Steiner D.F.;
"Novel organization and processing of the guinea pig pancreatic
polypeptide precursor.";
J. Biol. Chem. 263:2911-2916(1988).

-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISLETS
OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND
GASTROINTESTINAL FUNCTIONS.

-!- FUNCTION: THE PHYSIOLOGICAL ROLE FOR THE ICOSAPEPTIDE HAS
NOT YET BEEN ELUCIDATED.

-!- SUBCELLULAR LOCATION: Secreted.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
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                                                                                                               Cavia porcellus (Guinea pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Hystricognathi; Caviidae; Cavia.
NCBI_TaxID=10141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GROUP)
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SMART; SM00309; PAH; 1.
PROSITE; PS00265; PANCREATIC HORMONE 1; 1.
PROSITE; PS50276; PANCREATIC HORMONE 2; 1.
Hormone; Cleavage on pair of basic residues; Pancreas; Signal
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PANCREATIC ICOSAPEPTIDE.
AMIDATION (G-63 PROVIDE AMIDE
76C131560F566326 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (PP)
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(Rel. 06, Last sequence update)
(Rel. 41, Last annotation update)
normone precursor (Pancreatic polypeptide)
           16-UCT-2001 (Rel. 40, Last annotation update)
Pancreatic hormone precursor (Pancreatic polypeptide)
PPY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    244.5; DD NO. 2.4e-12; 29;
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Pred. No. 2.4e-
9; Mismatches
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update)
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A28256; A28256.
; P01302; 1BBA.
rPro; IPR001955; Pancreatic_hormn.
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                     95 AAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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                                                                                P01301;
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                                                                                                                                                                                       in A.S., Toder A.E., Leiter A.B.;

Eferent splice site utilization generates diversity betwee and human pancreatic polypeptide precursors.";

1. Biochem. Biophys. 267:742-748(1988).

FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.
                                                                                                                                                                                                                                                               SUBCELLULAR LOCATION: Secreted.

DOMAIN: IN RAT PRECURSOR, THE PEPTIDE WHICH IS FOUND AT T
TERMINAL OF PANCREATIC HORMONE DOES NOT SHOW ANY HOMOLOGY
PANCREATIC ISOCAPEPTIDE WHICH IS FOUND AT THE C-TERMINAL
PRECURSOR OF HUMAN PANCREATIC HORMONE.

SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.
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                                                                                                                     od divergence in pancreatic polypeptide. II. 263:2990-2997(1988).
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                               MEDLINE=86196026; PubMed=3009446;
Yamamoto H., Nata K., Okamoto H.;
"Mosaic evolution of prepropancreatic polypeptide."
J. Biol. Chem. 261:6156-6159(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 236.5; Db 1,
No. 7.8e-12;
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C-TERMINAL PEPTIDE.
AMIDATION (G-66 PRC
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                                                                                                       Kurashina
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PS50276; PANCREATIC HORMONE 2;
Amidation; Pancreas; Cleavage
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                                                                               SEQUENCE FROM N.A.
MEDLINE=88139354; PubMed=3343236;
                                                                                                                                                                    SEQUENCE FROM N.A.
MEDLINE=89104395; PubMed=3214179;
Kopin A.S., Toder A.E., Leiter A.B.
"Different splice site utilization
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PR00278; PANCHORMONE
MO0309; PAH; 1.
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ilarity 49.6%;
Conservative
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EMBL; M18207; AAA41922.1; -
EMBL; M27450; AAA99236.1; -
PIR; A01571; PCRT.
PIR; A28261; A28261.
PIR; S06472; S06472.
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61; Conserv
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_TaxID=10116
                                                                                                                                       conservation and
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Pfam; PF00
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PEPTIDE
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P SEQUENCE OF 40-59.

**MEDLINE=84208777; PubMed=6723953;

**MEDLINE=84208777; PubMed=6723953;

**Accordation of ovine pancreatic icosapeptide: a peptide product containing one cysteine residue.";

**FEBS Lett. 168:293-298(1984).

**C. -! - FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISLETS OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.

**C. -! - FUNCTION: THE PHYSIOLOGICAL ROLE FOR THE ICOSAPEPTIDE HAS NOT YET BEEN ELUCIDATED.

**C. -! - SUBCELLULAR LOCATION: Secreted.

**C. -! - SUBCELLULAR LOCATION: Secreted.

**C. -! - MISCELLANEOUS: GLY-LYS-ARG AT POSITIONS 37 TO 39 WERE INCLUDED BY HOMOLOGY WITH OTHER PANCREATIC HORMONE TYPE PRECURSOR SEQUENCE.

**C. -! - SIMILARITY: BELONGS TO THE NPY / PPY FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         149
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                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea
Bovidae; Caprinae; Ovis.
NCBI_TaxID=9940;
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ProDom; PD001267; Pancreatic_hormn; 1.
SMART; SM00309; PAH; 1.
PROSITE; PS00265; PANCREATIC_HORMONE 1; 1.
PROSITE; PS50276; PANCREATIC_HORMONE 2; 1.
Hormone; Cleavage on pair of basic residues; Amidation; Pancreas
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                                                                                                                                                                                                                                                                                                                                                    Chance R.E., Johnson M.G., Hoffmann J.A., Jones W.E., Koffenberger J.E. Jr.;
Unpublished results, cited by:
Chance R.E., Moon N.E., Johnson M.G.;
(In) Jaffe B.M., Behrman H.R. (eds.);
Methods of hormone radioimmunoassay (2nd ed.), pp.657-672, Academic Press, New York and London (1979).
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                                             21-JUL-1986 (Rel. 01, Created)
21-JUL-1986 (Rel. 01, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Pancreatic hormone precursor (Pancreatic polypeptide)
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PANCREATIC ICOSAPEI
AMIDATION (G-37 PRC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                IPR001955; Pancreatic hormn.
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ilarity 35.2%;
Conservative
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STANDARD;
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                                                                                                                                                                              (Sheep).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A01569; PCSH
P01302; 1BBA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                59 AA;
                                                                                                                                                                                                                                                                                                                                    SEQUENCE OF 1-36
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36 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TaxID=10152;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P41519;
01-NOV-1995
01-NOV-1995
16-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    33;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CHIBR
                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      to human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    species
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=92255314; PubMed=1808025;
Hepry J.S., Lance V.A., Conlon J.M.;
Hepry J.S., Lance V.A., Conlon J.M.;
"Primary structure of pancreatic polypeptide from four species
Perissodactyla (Przewalski's horse, zebra, rhino, tapir).";
Gen. Comp. Endocrinol. 84:440-446(1991).
-!- FUNGTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Regul. Pept. 32:39-45(1991).

-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.

-!- SUBCELLULAR LOCATION: Secreted.

-!- SUBCELLULAR LOCATION: Secreted.

-!- SUBCELLULAR LOCATION: Decreted.

-!- SUBCELLULAR LOC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tapirus pinchaque (Mountain tapir).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost
Mammalia; Eutheria; Perissodactyla; Tapiridae; Tapirus.
NCBI_TaxID=30582;
                                                                                                                                                                                                                                                                                         Euteleost
                                                                                                                                                                                                                                                                                                                                                                                                                                Yu J., Xin Y., Eng J., Yalow R.S.;
"Rhesus monkey gastroenteropancreatic hormones: relationship
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              36;
                                                                                                                                                                                                                                                                                      Vertebrata; Eutele; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AMIDATION.
761B717671A7758F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 186; DB 1; I
Pred. No. 2.1e-08;
); Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (PP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PARO 1981 SIGNOPARD; FRI; JO AM. P39659; 01-OCT-1994 (Rel. 30, Created) 01-OCT-1994 (Rel. 30, Last sequence update) 16-OCT-2001 (Rel. 40, Last annotation update) Pancreatic hormone (Pancreatic polypeptide) (
                                                                                                                                                  01-FEB-1994 (Rel. 28, Created)
01-FEB-1994 (Rel. 28, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Pancreatic hormone (Pancreatic polypeptide) (
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                                                                                                                                                                                                                                                          Macaca mulatta (Rhesus macaque).
Eukaryota; Metazoa; Chordata; Craniata; Ve
Mammalia; Eutheria; Primates; Catarrhini;
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE; PS00265; PANCREATIC HORMONE 1; PROSITE; PS50276; PANCREATIC HORMONE 2; Hormone; Pancreas; Amidation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE.
MEDLINE=91164506; PubMed=2003150;
Yu J., Xin Y., Eng J., Yalow R.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             19.3%;
38 KRDKEGTLDFLECGSPHSAVPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4183 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STANDARD;
                                                                                                                         STANDARD;
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     36 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Pancreas;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35;
                                                                                                                        PAHO MACMU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TAPPI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequences.
Regul. Pep
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                                                                                                                                      P33684;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ISLETS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chinchilla brevicaudata (Chinchilla).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentía; Hystricognathi; Chinchillidae;
Chinchilla.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      chemical assay.";

Peptides 11:683-685(1990).

-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISL.

OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND

GASTROINTESTINAL FUNCTIONS.

-!- SUBCELLULAR LOCATION: Secreted.

-!- SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.

PIR; B60413; B60413.

RISSP; P01302; 1BBA.

InterPro; 1PR001955; Pancreatic_hormn.

Pfam; PF00159; hormone3; 1.

PRINTS; PR00278; PANCHORMONE.
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TISSUE=Pancreas;
MEDLINE=91045327; PubMed=2235678;
Eng J., Kleinman W.A., Chu L.S.;
"Purification of peptide hormones from chinchilla pancreas by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              36;
                                                                                                                                                                                                                                                                                                           Length 36;
                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                               PYY FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AMIDATION.
761B717670E3308F CRC64;
                                                                                                                                                                                                                                           AMIDATION.
761B717671A6308F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                     Score 182; DB 1; I
Pred. No. 4.3e-08;
L; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 180; DB 1;
Pred. No. 6.1e-08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1-NOV-1995 (Rel. 32, Created)
1-NOV-1995 (Rel. 32, Last sequence update)
6-OCT-2001 (Rel. 40, Last annotation update)
ancreatic hormone (Pancreatic polypeptide) (
                                                                                                                                                                                                                                                                                                                                                                                               64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AA
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Mismatches
                                                         HSSP; P01302; 18BA.

InterPro; IPR001955; Pancreatic_hormn.
Pfam; PF00159; hormone3; 1.

PRINTS; PR00278; PANCHORMONE.
SMART; SM00309; PAH; 1.

PROSITE; PS00265; PANCREATIC_HORMONE_1; 1.

PROSITE; PS50276; PANCREATIC_HORMONE_2; 1.

Hormone; Amidation; Pancreas.

MOD_RES 36 36 AMIDATION.
GASTROINTESTINAL FUNCTIONS.
SUBCELLULAR LOCATION: Secreted.
SIMILARITY: BELONGS TO THE NPY / PPY
                                                                                                                                                                                                                                                                                                                                                                                               30 APLEPVYPGDNATPEOMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                      APLEPVYPGDNATPEQMAQYAAELRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SMART; SM00309; PAH; 1.
PROSITE; PS00265; PANCREATIC HORMONE 1;
PROSITE; PS50276; PANCREATIC HORMONE 2;
Hormone; Amidation; Pancreas.
MOD_RES 36 36 AMIDATION.
                                                                                                                                                                                                                                                                                                                                                 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18.7%;
ilarity 94.3%;
Conservative
                                                                                                                                                                                                                                                                                                       th 18.9%; Similarity 97.1%; 34; Conservative
                                                                                                                                                                                                                                                              4197 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  4215 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STANDARD;
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Gaps

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dsr.

PAHO_

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SEQUENCE.

TISSUE=Pancreas;

MEDLINE=92225314; PubMed=1808025;

MEDLINE=92225314; PubMed=1808025;

MEDLINE=92225314; PubMed=1808025;

Henry J.S., Lance V.A., Conlon J.M.;

Henry J.S., Lance V.A., Conlon J.M.;

"Primary structure of pancreatic polypeptide from four species of Parisacdactyla (Przewalski's horse, zebra, rhino, tapir).";

Gen. Comp. Endocrinol. 84:440-446(1991).

-! FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISLIC OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.

-! SUBCELLULAR LOCATION: Secreted.

-! SIMILARITY: BELONGS TO THE NPY / PPY / PYY FAMILY.

PIR; B61132; B61132.
                                                                                                                                                                                                                                                                                                                                                                                                            Ceratotherium simum (White rhinoceros) (Square-lipped rhinoceros)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Perissodactyla; Rhinocerotidae; Ceratotherium
NCBI_TaxID=9807;
                                                                                                                                                           1; Length 36;
                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                 AMIDATION.
7611D1DC71A6308F CRC64;
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761B716F8CE2908F CRC64;
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0
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                                                                                                                                                                                                                                                                                                                                                                                              (PP)
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1.2e-07;
                                                                                                                                                                        le-07;
                                                                                                                                                                                                                                                                                                                                              01-OCT-1994 (Rel. 30, Created)
01-FEB-1995 (Rel. 31, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Pancreatic hormone (Pancreatic polypeptide) (
                                                                                                                                                            ΩB
                                                                                                                                                        Score 177; DB Pred. No. 1e-0'2; Mismatches
                                                                                                                                                                                                                    64
                                                                                                                                                                                                                                                                                                                      Z
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Last sequence update)
\vdash
                                                                                                                                                                                                                    30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                      36
                                                                                                                                                                                                                                 1 APLEPVYPGDDATPEQMAQYAAELRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30 APLEPVYPGDNATPEQMAQYAADLRRYINMLTRPR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -!- SUBCEL-
-!- SIMILARITY: BEL-
-!- SIMILARITY: BEL-
PIR; B61132; B61132.

HSSP; P01302; 1BBA.
InterPro; IPR001955; Pancreatic_hormn.
Pfam; PF00159; hormone3; 1.
PRINTS; PR00278; PANCHORMONE.
SMART; SM00309; PAH; 1.
- PS00265; PANCREATIC_HORMONE_2;
PANCREATIC_HORMONE_2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMAKI; SMUUSUS; FAH; I.
PROSITE; PS00265; PANCREATIC HORMONE 1
PROSITE; PS50276; PANCREATIC HORMONE 2
HOTMONE; Amidation; Pancreas.
MOD_RES 36 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3;
                                                                                                                                                                                     2;
                                                                                                                                                         18.4%;
ilarity 94.3%;
Conservative 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18.3%;
larity 91.4%;
Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4214 MW;
                                                                                                                                                                                                                                                                                                                     STANDARD;
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31,
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32; Conserv
                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     36
                                                                                                                                                                                                                                                                                                                  PAHO CERSI
P37999;
01-OCT-1994
01-FEB-1995
16-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAHO_ERIEU
P41335;
01-FEB-1995
01-FEB-1995
                                                                                                                                                                                    33;
                                                                                                                                                           Query Match
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                                                                                                                                                                                                                                                            of
                                                                                                                                                                                                         TISSUE=Pancreas;
MEDLINE=9225314; PubMed=1808025;
Henry J.S., Lance V.A., Conlon J.M.;
Henry J.S., Lance V.A., Conlon J.M.;
Henry J.S., Lance V.A., Conlon J.M.;
Primary structure of pancreatic polypeptide from four species of Prissodactyla (Przewalski's horse, zebra, rhino, tapir).";
Gen. Comp. Endocrinol. 84:440-446(1991).
-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISL OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND GASTROINTESTINAL FUNCTIONS.
-!- SUBCELLULAR LOCATION: Secreted.
-!- SUBCELLULAR LOCATION: Secreted.
                                                                                                                                                                                                                                                            species
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SUBCELLULAR LOCATION: Secreted.
SIMILARITY: BELONGS TO THE NPY / PYY FAMILY.
A01568; PCPG.
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Sus.
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Excerpta Medica,
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761ADA6CC1A6308F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lin T.-M.;
                                                                                                            Equus zebra (Mountain zebra), and
Equus caballus przewalskii (Przewalski's horse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
NCBI_TaxID=9791, 9798;
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Cetartiodactyla; Suina; Suidae;
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                                                                                   (BP)
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                                             01-OCT-1994 (Rel. 30, Last Sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Pancreatic hormone (Pancreatic polypeptide) (PPY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (Rel. 01, Created)
(Rel. 01, Last sequence update)
(Rel. 40, Last annotation update)
tormone (Pancreatic polypeptide) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chance R.E., Johnson M.G., Hoffmann J.A., Li. (In) Baba S., Kaneko T., Yanaihara N. (eds.) Proinsulin, insulin, c-peptide, pp.419-425, Amsterdam (1979).
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6.1e-
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             36 AA
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MOD_RES 36 36 AMIDATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 180;
Pred. No.
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PIR; D61132; D61132.
HSSP; P01302; 1BBA.
InterPro; IPR001955; Pancreatic_hormn
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ilarity 94.3%;
Conservative
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           STANDARD;
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                                      (Rel. 30, (Rel. 30, (Rel. 40,
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Eukaryota; Metazoa; (
Mammalia; Eutheria; (
NCBI_TaxID=9823;
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36 AA;
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                                     01-OCT-1994
01-OCT-1994
16-OCT-2001
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21-JUL-1986
16-OCT-2001
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P01300;
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PRINTS;
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MEDLINE=94052825; PubMed=8234904;

Marks N.J., Shaw C., Halton D.W., Thim L.;

"The primary structure of pancreatic polypeptide from a primitive
insectivorous mammal, the European hedgehog (Erinaceous europaeus).";

Regul. Pept. 47:179-185(1993)

-!- FUNCTION: PANCREATIC HORMONE IS SYNTHESIZED IN PANCREATIC ISLETS

OF LANGERHANS AND ACTS AS A REGULATOR OF PANCREATIC AND

GASTROINTESTINAL FUNCTIONS.

-!- SIMILARITY: BELONGS TO THE NPY / PPY FAMILY.

HSSP; PO1302; 1BBA.

InterPro; IPR001955; Pancreatic_hormn.

Pfam; PF00159; hormone3; 1.

RPRINTS; PR00278; PANCHORMONE.

SMART; SM00309; PAH; 1.

RROSITE; PS50276; PANCREATIC HORMONE_2; 1.

HORMONE; AMIDATION.

SEQUENCE 36 AA; 4234 MW; 7609C6989148208F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                            Erinaceus europaeus (Western European hedgehog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleost
Mammalia; Eutheria; Insectivora; Erinaceidae; Erinaceinae; Er
NCBI_TaxID=9365;
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Pred. No. 2.1e-07;
I; Mismatches 1;
               (PP)
16-OCT-2001 (Rel. 40, Last annotation update) Pancreatic hormone (Pancreatic polypeptide) (
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llarity 94.1%;
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Search completed: March 1, 2003, 09:11:58 Job time: 13 secs